Statistics
1985

A statisical supplement to the Annual Report of the Minister of Natural Resources for the year ending March 31, 1985.

$2.00

Ontario
Ministry of Natural Resources
Hon. Vincent G. Kerrio
Minister
Mary Mogford
Deputy Minister

Statistical Reports

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MINISTRY OF NATURAL RESOURCES

Main Office in Whitney Block, Parliament Buildings, Toronto, Ontario M7A 1W3

Hon. Vincent Kerrio.....	Minister of Natural Resources and Energy
Mary Mogford.....	Deputy Minister
R. M. Monzon.....	Assistant Deputy Minister, Administration
G. A. McCormack.....	Assistant Deputy Minister, Northern Ontario, Box 5000, 435 James St. South, Thunder Bay 'F', Ontario P7C 5G6 Northwestern Region North Central Region Northern Region Northeastern Region Aviation and Fire Management Centre
R. J. Burgar.....	Assistant Deputy Minister, Southern Ontario. Maple, Ontario LOJ 1EO Algonquin region Eastern Region Central Region Southwestern Region

MINISTERIAL AGENCIES

G. H. Ferguson, Q. C.....	Mining and Lands Commissioner
I. D. Bird.....	General Manager, Algonquin Forest Authority

OFFICE OF DEPUTY MINISTER

Room W-6320, Main Office, Telephone (416) 965-2704

Deputy Minister	Mary Mogford	W-6320....2704
Administrative Assistant	Mrs. I. Hart	W-6320....5873
Science Adviser and Research Co-ordinator	Dr. M. F. Walmsley	W-6341....5270
Ontario Renewable Resource Research Grant Program	G. A. Ross	W-6304....3-3049
EXECUTIVE CO-ORDINATORS		
Forest Resources Group	K. A. Armson	W-3624....4319
Mineral Resources Group	J. E. Finlay	W-6341....4271
Outdoor Recreation Group	T. J. Millard	W-2341....5661
Lands and Waters Group	H. A. Clarke	W-6626....6046
POLICY AND PLANNING SECRETARIAT		
Director	L. A. Douglas	W-6450....8422
Secretary	Mrs. M. Forbes	W-6450....8422
Policy Officer	E. E. Multamaki	W-6445....6712
Mineral Resources Policy Officer	Ms. R. E. Booth-Horst	W-6453....6712
Policy Officer - Northern Ontario	G. G. Pyzer	(807)...475-1271
Strategic Planning and Support	J. D. Ross	W-6446....6371
Special Projects Officer	J. M. Kearns	W-6454....6371
Land Use Planning Spvr. (acting)	G. K. Rodgers	W-6452....2899
Plan Input and Review Specialist	J. C. Slot	W-6448....2899
Environmental Assessment Co-ord	R. D. La Prairie	W-6449....5344
Integrated Resource Management Planning Specialist	G. D. Rodgers	W-6451....2899

RENEWABLE RESOURCES RESEARCH GRANT PROGRAM

Summary of projects and allocations for the first year of the program, 1984

University	Projects
Guelph	5
Lakehead	2
Ottawa	1
R.O.M.	1
Toronto	4
Trent	1
Waterloo	3
York	1
TOTAL PROJECTS	18
TOTAL COST	$251,278.00

MINISTRY REGIONS AND DISTRICTS

Areas in Square Kilometres *

NORTHWESTERN REGION		
Dryden	11,961	
Fort Frances	10,847	
Ignace	11,463	
Kenora	14,188	
Red Lake	64,105	
Sioux Lookout	112,097	224,661
Pt. Rainy Lake	1,222	
Pt. Lake of the Woods	2,427	3,649
Total, Region		228,310
NORTHERN REGION		
Chapleau	23,602	
Cochrane	30,715	
Gogama	7,752	
Hearst	25,245	
Kapuskasing	21,225	
Kirkland Lake	13,312	
Moosonee	215,741	
Timmins	7,899	345,491
Pt. Lake Abitibi	790	790
Total, Region		346,281
ALGONQUIN REGION		
Algonquin Park	9,376	
Bancroft	4,239	
Bracebridge	6,454	
Minden	4,745	
Parry Sound	7,187	
Pembroke	7,306	39,307
Pt. Georgian Bay	3,875	3,875
Total, Region		43,182

SOUTHWESTERN REGION		
Aylmer	6,731	
Chatham	7,389	
Owen Sound	7,817	
Simcoe	2,818	
Wingham	6,889	31,644
Pt. Lake Huron and Lake Erie	30,950	
Pt. Lake St. Clair	673	31,624
Total, Region		62,268
NORTH CENTRAL REGION		
Atikokan	11,321	
Geraldton	112,784	
Nipigon	25,574	
Terrace Bay	12,673	
Thunder Bay	28,451	190,803
Lake Nipigon	5,006	
Pt. Lake Superior	16,017	21,023
Total, Region		211,826
NORTHEASTERN REGION		
Blind River	9,516	
Espanola	9,523	
North Bay	10,668	
Sault Ste. Marie	7,912	
Sudbury	12,725	
Temagami	6,856	
Wawa	22,535	79,735
Pt. Lake Huron and Lake Superior	25,298	
Lake Nipissing	816	
Lake Wahnapitae	145	26,259
Total, Region		105,994

EASTERN REGION		
Brockville	3,496	
Carleton Place	6,277	
Cornwall	5,594	
Napanee	6,537	
Tweed	6,605	28,509
Pt. Lake Ontario	4,333	4,333
Total, Region		32,842
CENTRAL REGION		
Cambridge	7,141	
Huronia	6,550	
Lindsay	6,856	
Maple	4,812	
Niagara	2,670	28,029
Pt. Lake Ontario and Lake Erie	8,109	
Lake Simcoe	741	8,850
Total, Region		36,879
TOTALS		
47 Districts		968,179
12 Lakes		100,403
Area of Ontario		1,068,582

* August 19,1980
Surveys and Mapping Branch

FOREST RESOURCES GROUP

Room W-3623, Main Office Telephone (416) 965-2785

Executive Co-ordinator	K. A. Armson	W-3624...5-4319
Secretary	Miss O. Andrews	W-3624...5-8538
Co-ordinator, Private land Forestry	W. K. Fullerton	W-3621...5-3040
Chief Forest Economist	Dr. F. Miller	W-3627...5-2785

FOREST RESOURCES BRANCH

Room W-3640, Main Office Telephone (416) 965-2575

Director	L. Lambert	W-3646...5-2787
Secretary	Mrs. J. Whorms	W-3646...5-2577
FOREST PRODUCTION & CONTROL DIVISION		
Supervisor	C. J. Heeney	W-3649...5-2575
Tree Seed & Forest Genetics Supvr	Ms. R. M. Rauter	W-3634...3-1334
Forest Genetics Co-ordinator	J. V. Hood	W-3632...3-1334
Stock Production Section Spvr	R. J. Reffle	W-3655...5-2575
Soil & Plant Analyst	V. Sadreika	W-3653...5-2575
Tree Distribution Co-ordinator	H. T. Tiemann	W-3654...5-2575
Silvicultural Data Controller	R. K. Crawford	W-3648...5-2575
Technical Development Section Co-ordinator	Dr. D.C.F. Fayle	W-3631...5-2785
Forest Practices Section Spvr	W. Vonk	W-3621...5-2785
STRATEGIC TARGETS & PROGRAM CONTROL DIVISION		
Section Spvr	J. R. Cary	W-3643...5-0378
Forest Production Analyst	J. A. Cooper	W-3650...5-2575
PRIVATE LAND FORESTRY DIVISION		
Section Spvr	R. N. Staley	W-3630...5-2785
Agreement Administrator	J. Brown	W-3629...5-2785
PEST CONTROL DIVISION		
Section Spvr	B. G. McGauley	Maple..832-2761
Forest Entomologist	J. J. Churcher	Maple..832-2761
Forest Pathologist	Dr. J. A. Juzwik	Maple..832-2761
Herbicide Specialist	Dr. R. A. Campbell	Maple..832-2761
Pesticide Applications Specialist	S. A. Nicholson	Maple..832-2761
CANADA-ONTARIO FOREST RESOURCE DEVELOPMENT AGREEMENT		
Administrator	K. G. Higgs	W-1545...3-1334

ONTARIO TREE IMPROVEMENT AND FOREST BIOMASS INSTITUTE (OTIFBI)

Maple, Ontario L0J 1E0 Telephone (416) 832-2761

General Manager	D. P. Drysdale	832-2761
Executive Officer	D. Morgan	832-2761
Technology Transfer Specialist	D. Bates	832-2761
Scientific Photographer	J. Robinson	832-2761
TREE IMPROVEMENT AND BIOMASS SECTION		
Principal Scientist	Dr. G. Buchert	832-2761
Research Scientist Tree Breeding Hard Pine	Dr. G. Buchert	832-2761
Research Scientist Genecology Spruce	Dr. A. G. Gordon	Sault Ste. Marie (705) 949-9461
Forest Biomass Unit Leader	H. W. Anderson	832-2761
Research Scientist Upland Silviculture	P. Jaciw	832-2761
Research Scientist, Biotechnology	Dr. R. H. Ho	832-2761
Research Scientist, Tree Seed	D. A. Skeates	832-2761
Research Scientist, Aspen Silviculture	D. Weingartner	Thunder Bay (807) 767-1607
Nursery/Greenhouse Arboreta Unit Leader	K. Bennett	832-2761
FOREST ECOLOGY AND SILVICULTURE SECTION		
Principal Scientist	Dr. D. Burger	832-2761
Scientist, Tree Physiology	Y. T. Kim	832-2761
Research Scientist, Boreal Mixed Woods	G. B. MacDonald	Thunder Bay (807) 767-1607
Biomath/Program Analyst	R. Forslund	Thunder Bay (807) 767-1607
Silviculture and Tree Biology Unit Leader	Dr. C. Glerum	832-2761
Research Scientist, Plant Stock	S. Colombo	832-2761
Research Scientist, Tolerant Hardwoods Silviculture	M. McLean	Dorset (705) 766-2671
Research Scientist, Artificial Regeneration - Boreal	K. M. McClain	Thunder Bay (807) 767-1607
Silviculture Specialist	G. Stroempl	832-2761
Supervisor, Research Nursery	R. Hutchison	Midhurst (705) 737-5510

USE OF NURSERY STOCK IN YEAR ENDING MARCH 31, 1985

Use	Bare Root Ministry	Container Ministry	Container Contract	Total
Crown Land and Agreement Forest	31,730,758	13,964,217	62,084,413	107,779,388
W.I.A.	7,535,950	-	-	7,535,950
Other Private Land	12,120,046	-	-	12,120,046
Education or Science	796,435	-	-	796,435
Miscellaneous	-	-	-	-
TOTAL	52,183,189	13,964,217	62,084,413	128,231,819

FOREST TREES PRODUCED AND PURCHASED BY THE MINISTRY

Year	Bare Root Ministry	Container Ministry	Container Contract	Total
1975	59,794,450	3,148,406	-	62,942,856
1976	50,944,733	5,346,866	-	56,291,599
1977	45,981,122	4,291,764	-	50,272,886
1978	48,291,842	5,461,375	-	53,753,217
1979	52,928,125	5,487,210	-	58,415,335
1980	61,453,461	7,944,817	-	69,398,278
1981	65,360,243	10,496,839	-	75,857,082
1982	69,448,150	13,950,538	-	83,398,688
1983	63,660,427	10,999,088	5,466,142	80,125,657
1984	67,472,981	14,743,138	25,256,448	107,472,567
1985	52,183,189	13,964,217	62,084,413	128,231,819

PLANTING STOCK DISTRIBUTION

Bare Root Nursery Stock	
conifers	49,135,410
hardwoods	3,047,779
Total	52,183,189
Container Stock (conifers)	
ministry facilities	13,964,217
contract facilities	62,084,413
Total	76,048,630
GRAND TOTAL	128,231,819

TREE PRODUCTION BY SPECIES

Number of trees in years ending March 31

Species	1981	1982	1983	1984	1985
White Spruce	14,384,928	16,394,578	16,396,972	15,037,822	11,302,704
Black Spruce	17,365,106	17,155,688	18,847,802	35,772,366	48,298,559
Red Pine	8,534,677	7,493,071	6,707,858	7,125,973	4,771,746
Jack Pine	19,143,238	25,830,821	21,744,405	33,456,807	45,991,911
White Pine	6,431,427	6,451,959	7,595,781	7,575,437	9,809,085
White Cedar	2,381,005	2,806,775	2,984,424	2,355,744	1,788,336
Scotch Pine	1,500,375	1,545,425	906,075	1,874,825	2,346,725
Silver Maple	563,229	240,785	502,402	413,503	594,032
Norway Spruce	1,367,267	1,093,919	1,021,589	873,810	487,910
Carolina Poplar	583,863	532,351	404,549	404,128	302,230
Black Walnut	459,275	364,000	333,125	330,585	319,425
White Ash	256,239	283,281	57,218	100,099	71,706
European Larch	489,290	275,202	164,918	123,540	59,925
Yellow Birch	80,144	116,400	20,000	4,115	-
Red Oak	258,284	316,191	178,717	179,827	42,858
Black Locust	203,250	164,475	217,950	158,875	67,640
Tamarack	143,777	309,506	434,983	163,826	260,560
Hemlock	68,746	272	14,725	17,264	23,600
Cottonwood	53,725	-	-	-	-
Hybrid Poplar					
Rooted	112,422	108,484	53,042	52,504	26,730
Unrooted	818,530	1,061,811	1,079,038	954,520	935,081
Japanese Larch	156,965	293,631	129,350	162,350	102,350
Aspen, unrooted	-	-	7,880	-	-
Other Species	501,320	560,063	322,854	334,647	628,706
TOTALS	75,857,082	83,398,688	80,125,657	107,472,567	128,231,819

TREES SUPPLIED FOR PLANTING ON PRIVATE LANDS

in year ending March 31

County, District or Regional Municipality	1981	1982	1983	1984	1985
Algoma	305,955	190,825	251,205	373,630	255,078
Brant	222,850	129,055	22,125	169,600	144,345
Bruce	194,197	278,020	138,851	193,992	176,485
Cochrane	705,480	1,072,250	536,825	792,140	257,925
Dufferin	507,385	470,585	307,250	368,495	390,450
Dundas	125,453	68,475	73,972	121,360	75,901
Durham*	479,450	538,150	487,200	531,925	489,175
Elgin	208,435	209,899	189,162	197,437	216,217
Essex	208,541	188,513	199,307	225,781	138,837
Frontenac	136,700	193,486	112,800	115,110	152,325
Glengarry	190,742	166,500	136,350	74,800	129,550
Grey	524,400	503,740	487,980	568,150	529,653
Haldimand-Norfolk	525,407	485,492	520,725	468,362	488,959
Haliburton	48,100	33,800	26,800	23,700	36,850
Halton	274,165	137,575	105,385	182,883	126,515
Hastings	169,042	317,973	178,422	360,897	227,013
Huron	273,100	198,264	147,279	244,654	274,237
Kenora	273,900	189,175	519,125	529,050	264,375
Kent	303,225	233,185	320,655	270,300	157,050
Lambton	192,941	239,577	174,693	150,309	94,571
Lanark	260,175	203,900	155,000	158,850	143,700
Leeds & Grenville	297,361	333,375	249,795	328,626	266,150
Lennox & Addington	107,775	128,350	154,095	109,600	69,700
Manitoulin	27,400	15,100	16,350	20,125	10,600
Middlesex	616,575	433,402	440,800	480,350	329,960
Muskoka	73,250	68,150	57,845	56,459	154,650
Niagara	366,493	365,481	211,336	310,746	195,152
Nipissing	41,925	60,770	75,455	293,100	187,757
Northumberland*	326,280	530,657	423,148	387,473	266,280
Ontario*	-	2,610	1,700	-	570
Ottawa-Carleton	300,615	252,310	160,530	162,805	197,155
Oxford	275,075	197,278	175,996	150,975	136,680
Parry Sound	338,250	188,650	50,625	155,225	64,035
Peel	289,669	265,910	188,300	192,635	292,235

County, District or Regional Municipality	1981	1982	1983	1984	1985
Perth	177,450	135,535	169,190	114,115	93,650
Peterborough	202,400	133,920	148,111	217,215	174,562
Prescott	123,875	142,825	250,400	131,150	120,700
Prince Edward	86,825	71,650	72,100	166,150	173,700
Rainy River	97,325	101,750	13,650	67,940	382,900
Renfrew	420,025	229,550	282,925	595,720	207,750
Russell	207,150	174,655	128,150	133,855	144,732
Simcoe	1,268,225	1,143,650	1,006,995	1,096,576	1,061,074
Stormont	138,703	50,100	60,500	93,095	182,290
Sudbury	465,222	415,335	590,029	490,255	358,807
Thunder Bay	418,325	113,325	62,975	206,150	241,575
Timiskaming	40,300	12,250	23,400	154,950	43,850
Victoria	283,922	278,930	204,725	251,689	200,502
Waterloo	170,052	111,100	86,575	190,075	139,425
Wellington	759,815	709,700	798,607	675,938	938,051
Wentworth	365,135	324,423	299,198	350,579	244,825
York	568,025	410,582	438,280	478,705	471,518
Durham Regional Municipality	1,550	150	-	400	-

TOTALS

1981	14,984,610#
1982	13,449,912#
1983	12,032,896#
1984	14,184,101#
1985	12,120,046#

Excluding W.I.A.

* Totals do not reflect formation of the Regional Municipality of Durham

FOREST AREAS MANAGED BY THE MINISTER

in hectares at March 31, 1985

Agreement Holders	Term of Agreement	Released 1984-85	Added 1984-85	Total
GOVERNMENT OF CANADA				
National Capital Commission	Apr. 1961 - Mar. 2011	-	-	1,704.13
21 CONSERVATION AUTHORITIES				
Ausable Bayfield	Jan. 1983 - Mar. 2004		91.05	1,905.26
Cataraqui Region	Apr. 1971 - Mar. 1996			342.31
Catfish Creek	Apr. 1962 - Mar. 2002			254.55
Crowe Valley	Jan. 1963 - Dec. 2003			80.94
Ganaraska	Apr. 1977 - Mar. 2002			3,496.18
Grand River	Apr. 1961 - Mar. 2000			1,657.72
Lakehead Region	May 1958 - Apr. 2008			670.85
Long Point Regional	Apr. 1982 - Mar. 2000		1.01	2,592.33
Lower Thames Valley	Apr. 1964 - Mar. 1984			121.41
Maitland Valley	Apr. 1955 - Mar. 2005			343.58
Metropolitan Toronto & Region	Apr. 1975 - Mar. 2000	.52		785.38
Moira River	Apr. 1978 - Mar. 2000			6,807.13
Napanee Region	Oct. 1954 - Oct. 2004			2,732.44
Niagara Peninsula	June 1963 - Mar. 2003			75.27
*North Grey Region	June 1958 - June 2008		65.36	2,948.03
Otonabee Region	Apr. 1976 - Mar. 2002			1,465.04
Raison Region	Apr. 1971 - Mar. 2001			137.59
*Sauble Valley	Apr. 1960 - Mar. 2002			1,547.52
Saugeen Valley	Apr. 1960 - Mar. 2002			5,285.39
South Nation River	Apr. 1975 - Mar. 2000			3,072.83
St. Clair Region	May 1965 - Apr. 1985			60.70
Upper Thames River	Apr. 1961 - Mar. 2001			1,363.29
Sub-total		.52	157.42	37,745.74

* "Grey Sauble" Amalgamation - January 1, 1985

Agreement Holders	Term of Agreement	Released 1984-85	Added 1984-85	Total
8 TOWNSHIPS				
Charlottenburgh	Apr. 1975 - Mar. 1995			77.70
Cramahe	Apr. 1963 - Mar. 2003			65.56
Cumberland	July 1980 - June 2030			371.68
Darlington	Apr. 1971 - Mar. 1991			56.66
Machar	Sept 1963 - Aug. 1993			36.42
Mosa	Apr. 1963 - Mar. 2003			58.27
*West Carleton	Apr. 1983 - Mar. 2003			174.34
Williamsburg	Apr. 1962 - Mar. 2002			161.87
Sub-total				1,002.50

Agreement Holder	Term of Agreement	Released 1984-85	Added 1984-85	Total
19 COUNTIES				
Brant	Apr. 1960 - Mar. 2000			40.19
Bruce	Apr. 1962 - Mar. 2002			6,106.03
Dufferin	Apr. 1971 - Mar. 1991			1,019.21
Grey	Apr. 1960 - Mar. 2000			3,481.19
Huron	Apr. 1960 - Mar. 2000			662.30
Kent	Apr. 1960 - Mar. 2000			30.51
Lanark	Apr. 1980 - Mar. 2000	3.52	99.15	3,807.00
Leeds & Grenville	Apr. 1975 - Mar. 1995			5,802.18
Lennox & Addington	Apr. 1960 - Mar. 2000			473.04
Middlesex	Apr. 1960 - Mar. 2000			980.96
Northumberland	Apr. 1981 - Mar. 2001			2,603.98
Oxford	Apr. 1961 - Mar. 2000			342.06
Peterborough	Apr. 1981 - Mar. 2001			80.94
Prescott & Russell	Apr. 1983 - Mar. 2003			10,581.00
Renfrew	Apr. 1960 - Mar. 2000	.76		6,497.56
Simcoe	Apr. 1960 - Mar. 2000	12.55		10,587.59
Stormont, Dundas & Glengarry	Apr. 1975 - Mar. 2000		116.13	3,193.16
Victoria	Nov. 1976 - Mar. 2000			3,794.71
Wellington	Apr. 1963 - Mar. 2003			521.44
Sub-total		16.83	215.28	60,605.02

Agreement Holders	Term of Agreement	Released 1984-85	Added 1984-85	Total
5 REGIONAL MUNICIPALITIES				
Durham	May 1980 - Apr. 2000			591.05
Halton	Apr. 1976 - Mar. 2000			632.29
Hamilton-Wentworth	TERMINATED Nov. 1984	391.19		
Ottawa-Carleton	Apr. 1974 - Mar. 2004		20.23	5,504.34
Waterloo	Apr. 1976 - Mar. 2001			304.54
York	Apr. 1977 - Mar. 200/			2,030.48
Sub-Total		391.19	20.23	9,062.70
INDUSTRY				
Domtar Inc	Apr. 1974 - Mar. 1999			900.02

TOTAL 55 Managed Forest Areas

Added 1984-85	392.93
Released 1984-85	408.54
Total	111,020.14

SILVICULTURE OPERATIONS 1984-85
Classification of Cutover Forest Land
Area in hectares

	Crown Land	FMAs	Total Crown Lands	Agree-ment Forests	W.I.A.	Other Patent Lands	Total
Harvest Cut, evenaged management	116,300	60,689	176,989	573	949	8,808	187,319
Harvest Cut, unevenaged management	15,479	-	15,479	323	1,265	13,420	30,487
TOTAL	131,779	60,689	192,468	896	2,214	22,228	217,806

SUMMARY OF SILVICULTURAL OPERATIONS

Areas in Hectares in year ending March 31, 1985

	Crown Land	Forest Management Agreements	Total Crown Land
REGENERATION			
Planting Bare Root Stock	9,286	6,241	15,527
Planting Container Stock	17,479	19,484	36,963
Planting Hybrid Poplar Cuttings	70	30	100
Seeding	7,491	8,417	15,908
Scarification	585	294	879
Strip Cutting	600	545	1,145
Seed Tree Cutting	1,183	1,306	2,489
Shelterwood Cutting	9,232	-	9,232
Clear Cutting	5,829	3,131	8,960
Total	51,755	39,448	91,203
RE-TREATMENT			
Re-treatment area included in planting and total regeneration figures above	2,415	1,534	3,949
TENDING			
Hand Cleaning	7,470	226	7,696
Herbicide Spraying	17,283	24,740	42,023
Thinning Improvement Cuts	6,547	44	6,591
Pruning	595	1	596
Fertilization Drainage	58	-	58
Total	31,953	25,011	56,964
SITE PREPARATION	46,726	37,082	83,808
UNEVEN-AGED MANAGEMENT	11,769	-	11,769
TOTAL AREA TREATED	142,203	101,541	243,744

Agreement Forests	W.I.A.	Sub-total	Other Patent Lands	Total
181	4,891	20,599	5,143	25,742
79	167	37,209	33	37,242
111	42	253	117	370
-	67	15,975	254	16,229
-	-	879	-	879
2	10	1,157	11	1,168
-	-	2,489	-	2,489
121	112	9,465	428	9,893
22	36	9,018	457	9,475
516	5,325	97,044	6,443	103,487
93	1,481	5,523	17	5,540
310	740	8,746	42	8,788
467	2,300	44,790	2,284	47,074
1,767	1,717	10,075	2,028	12,103
940	357	1,893	7	1,900
63	8	129	-	129
3,547	5,122	65,633	4,361	69,994
281	1,434	85,523	530	86,053
90	663	12,522	6,641	19,163
4,434	12,544	260,722	17,975	278,697

CROWN LANDS TREATED

Areas in hectares in years ending March 31

Silvicultural Operations	1981	1982	1983	1984	1985
REGENERATION					
Planting Bare Root Stock	18,786	22,561	21,272	21,286	15,527
Planting Container Stock	4,829	6,357	7,305	17,889	36,963
Planting Hybrid Poplar Cuttings	24	31	19	286	100
Seeding	47,296	27,869	29,857	21,180	15,908
Scarification	3,241	1,653	817	1,110	879
Strip Cutting	1,562	2,879	1,445	718	1,145
Seed Tree Cutting	3,934	3,100	3,215	4,204	2,489
Shelterwood Cutting	9,794	7,738	9,431	10,308	9,232
Clear Cutting	6,202	4,909	7,552	14,121	8,960
Total	95,668	77,097	80,913	91,102	91,203
RE-TREATMENT	7,981	2,263	2,353	3,483	3,949
TENDING					
Hand Cleaning	4,481	3,686	5,844	6,282	7,696
Herbicide Spraying	25,404	19,668	26,165	21,125	42,023
Thinning Improvement Cuts	8,209	6,679	6,698	6,908	6,591
Pruning	853	618	756	751	596
Fertilization Drainage	166	163	87	207	58
Total	39,113	30,814	39,550	35,273	56,964
SITE PREPARATION	51,057	53,289	67,583	74,064	83,808
MARKING	43,390	38,954	37,229	42,301	-
UNEVEN-AGED MANAGEMENT	-	-	-	-	11,769
TOTAL AREA TREATED	237,209	202,417	225,275	242,740	243,744

TREE SEED PROGRAM 1984-85

SEED COLLECTION

Seed Crop By Species	Volume Collected (hl)
Jack pine	8,527.34
Black spruce	2,021.85
White spruce	1,989.76
White pine	3,044.36
White cedar	127.39
Red pine	61.20
Black walnut	200.00
Other species	1,060.88
Total viable	17,032.78

1984 SEED DISTRIBUTION

Direct seeding	858,388,940
Nursery stock production	501,011,249
Container stock production	242,627,506
Research and miscellaneous	6,521,153
Total viable seed	1,608,548,848

SEED IN STORAGE AS OF MARCH 31, 1985

No. of viable seed (billion)	14.105
No. of different species	55
Total weight (kg)	48,375
Total value (million)	8.075

TREE SEED AREAS

Areas in hectares

Species	Seed Collection Areas	Seed Production Areas	Seed Orchards (areas planted to date)
Black Spruce	557.1	171.8	73.1
White Spruce	118.8	243.3	31.8
White Pine	239.0	594.3	31.2
Jack Pine	11,540.4	1,192.8	42.0
Others	472.3	570.6	20.3
Total	12,927.6	2,772.8	198.4

1984-85 FORESTRY EXTENSION ACTIVITIES

Inquiries serviced	119,614
Field inspections	10,044
Advisory service plans prepared	2,464
Volume of timber marked - sawlogs (cubic metres)	125,697
- pulpwood (cubic metres)	56,294
- fuelwood (cubic metres)	235,997
Public education activities	1,625
Forestry instruction - youth groups (no.)	241
Forestry instruction - education facilities (hrs.)	5,279
Total trees planted - private orders	12,120,046

THE WOODLANDS IMPROVEMENT ACT 1984-85

	No. of Agreements	Area in Hectares
New W.I.A. Agreements Activated in 1983-84	427	3,989
Total W.I.A. Agreements in effect to March 31, 1984	9,776	144,570
New Advisory Service Agreements Activated in 1983-84	59	874
Advisory Service Agreements in effect to March 31, 1984	230	3,361

Total Trees Planted - W.I.A.: 7,535,956

FOREST RESOURCES GROUP

TIMBER SALES BRANCH

Room W-3610, Main Office Telephone (416) 965-2731 or 963-2396

Director	E. Markus	W-3612...965-3948
Special Projects Co-ordinator	R. P. Alton	W-3610.....3-2396

TIMBER ALLOCATION SECTION

Supervisor	K. E. Cleary	W-3611...3-2396
Timber Licensing Spvr	R. Beny	W-3610...3-2396
Licensing Unit Spvr	F. C. Parris	W-3601...5-2731
Resource Economist	I. A. Nausedas	W-3601...5-2731
Industry Liaison Officer	W. D. Wardle	W-3625...5-2785
Statistician	O. J. Menezes	W-3601...5-2731

MANAGEMENT PLANS SECTION

Supervisor	A. M. van Fraassen	W-3522.....5-7631
Mensuration Unit		
Chief Mensurationist	J. A. Mervart	W-3526.....5-7631
Mensurationist	A. F. Beckwith	Rm 168.....5-9754 880 Bay St.
Forest Ecologist	G. Pierpoint	Rm 168.....5-9755 880 Bay St.
Biomathematician	F. L. Raymond	Rm 168.....5-9756 880 Bay St.
Methods and Procedures Analyst	D. C. MacIver	Rm 168.....5-9756 880 Bay St.
Planning Unit		
Planning Analyst	G. Protich	W-3525...5-7631
Planning Analyst	H. van Bers	W-3523...5-7631
FMA Co-ordinator	T. J. Tworzyanski	W-3524...5-7631

WOOD MEASUREMENT SECTION

Supervisor	J. H. Butts	W-3642...5-0378
Provincial Wood Measurement Training Officer	J. Bingley	W-3641...5-0378
Senior Data Processing Officer	R. G. Johnson	W-3641...5-0378
Data Control Officer	N. Martel	W-3641...5-0378

FOREST MANAGEMENT INFORMATION SECTION

Supervisor	J. E. Osborn	W-3542...5-6914
Forest Resources Inventory Unit Supervisor	D. B. Cardwell	W-3544...5-6914
Darkroom Spvr	J. Howard	W-3520...5-6914
Operations Manager	D. Trafford	W-3543...5-6914
Photo Interpretation Spvr	A. Manley	W-3546...5-6914
Data Entry Spvr	J. Ferguson	W-3541...5-6914
FORMAGAIN Unit Supervisor	vacant	M1B-43...3-0822

MANAGEMENT UNITS

Areas in square kilometres at March 31

	CROWN LAND FORESTS					
	Crown		Company		FMA	
Year	No.	Area	No.	Area	No.	Area
1981	78	333,402.0	14	165,016.0	5	45,584.0
1982	82	333,571.0	15	156,006.0	8	52,406.0
1983	77	333,781.0	13	139,120.0	13	70,218.0
1984	75	321,122.0	12	126,461.0	17	88,971.0
1985	74	330,575.0	10	104,577.0	22	113,631.0

AGREEMENT FORESTS			
Total			
No.	Area	No.	Area
97	544,002.0	60	1,096.6
105	541,983.0	58	1,013.0
103	543,119.0	58	1,109.0
104	536,554.0	58	1,108.0
106	548,783.0	58	1,108.0

STATUS OF FOREST MANAGEMENT PLANS, MARCH 31, 1985

Areas in square kilometres

	Forest Management Units						Agreement Forests	
	Crown		Company		FMA			
	No.	Area	No.	Area	No.	Area	No.	Area
Approved Mgmt. Plans	25	80,080	5	84,705	11	68,975	34	588
Forest Mgmt. Plans submitted for review and approval	29	105,307	4	18,993	6	19,997	3	142
Forest Mgmt. Plans being prepared	9	36,798	1	879	5	24,659	21	378
Plans are not req'd (Inactive)	11	104,586	-	-	-	-	-	-
Unalienated Crown Lands	-	3,804	-	-	-	-	-	-
Total	74	330,575	10	104,577	22	113,631	58	1,108

TIMBER LICENCES under the Crown Timber Act

Areas in square kilometres at March 31

Year	Under Section 2		Under Section 3		Under Section 5		Under Section 6		Total Licences	
	No.	Area	No.	Area	No.	Area	No.	Area	No.	Area
1981	56	69.4	423	198,334.8	64	329.7	5	45,583,8	548	244,317.7
1982	34	48.0	412	181,297.1	58	643.0	8	61,788.8	512	243,776.9
1983	26	32.3	415	178,967.1	52	545.6	13	79,627.8	506	259,172.8
1984	34	37.4	442	159,133.5	29	407.9	17	88,998.9	522	248,577.7
1985	34	27.0	456	141,368.3	27	169.6	22	113,122.2	539	254,687.1

Note: Number of District Cutting Licences/Permits issued during 1984/85 was 3,016.

MILL LICENCES

Type of Mill	1980	1981	1982	1983	1984
Saw Mills, 8-hour capacity					
Lumber....over 50M fbm	60	60	59	58	55
Lumber....10M to 50M fbm	96	85	87	88	72
Lumber....under 10M fbm	648	608	593	613	599
Misc. Sawn Products	38	50	68	44	45
Saw Mills, Total	842	803	807	803	771
Veneer Mills	31	25	26	25	28
Pulp Mills	21	21	21	20	20
Total	894	849	854	848	819

TIMBER HARVESTED ON CROWN LANDS BY SPECIES

In cubic metres and $000s in years ending March 31

Species	1981	1982	1983	1984	1985
SOFTWOOD					
Balsam	926,677	718,975	586,883	638,428	723,544
Cedar	13,972	13,659	17,195	18,667	23,478
Hemlock	59,109	63,504	47,361	65,111	79,230
Jack Pine	5,927,897	5,362,713	4,135,200	5,182,626	5,618,274
Red Pine	187,494	183,663	168,759	193,575	197,854
White Pine	495,271	529,159	563,024	754,044	728,257
Spruce	8,692,652	7,724,772	6,707,133	8,423,622	8,987,681
Tamarack	5,658	2,330	1,168	2,740	1,311
Mixed	10,017	18,503	30,599	20,691	14,236
HARDWOOD					
Ash	1,519	2,021	1,558	1,516	3,770
Basswood	9,069	11,042	7,769	8,544	27,777
Beech	15,737	19,581	18,377	17,999	32,996
White Birch	62,557	77,523	93,562	83,668	180,990
Yellow Birch	90,478	105,982	78,058	94,616	106,382
Butternut	16	16	36	21	38
Cherry	634	1,373	1,584	2,046	2,269
Elm	111	39	165	35	19
Ironwood	-	1	1	2	1
Maple	178,833	219,345	164,317	204,384	447,911
Oak	10,845	11,389	10,415	14,190	13,960
Poplar	1,414,955	1,800,431	1,505,038	2,243,088	2,641,390
Mixed	633,769	647,366	648,316	743,663	852,633
TOTALS					
Softwoods	16,318,746	14,617,179	12,257,322	15,299,504	16,373,865
Hardwoods	2,418,525	2,896,121	2,529,198	3,413,771	4,310,135
Total	18,737,271	17,513,300	14,786,521	18,713,275	20,684,000
Value	$43,727	$42,453	$35,037	$47,151	$60,965

VOLUME AND VALUE OF TIMBER CUT FROM CROWN LANDS

in year ending March 31, 1985

Tree Species	Volume in Cubic Metres	Bonus $	Crown Dues $	Stumpage Value $
SOFTWOODS				
White Pine	728,256.549	894,102.67	2,074,236.01	2,968,338.68
Red Pine	197,854.039	218,711.68	564,880.48	783,592.16
Jack Pine	5,618,274.070	605,976.46	18,044,732.10	18,650,708.56
White Spruce	133,134.632	6,330.56	457,003.33	463,333.89
Black Spruce	660,336.859	27,785.71	2,338,918.53	2,366,704.24
Spruce, Mixed	8,194,209.569	1,075,810.80	26,362,624.84	27,438,435.64
Hemlock	79,229.942	19,519.73	216,507.99	236,027.72
Balsam	723,544.004	75,184.63	2,230,690.10	2,305,874.73
Cedar	23,478.279	8,985.41	66,405.51	75,390.92
Tamarack	1,310.856	256.98	3,816.06	4,073.04
Conifers, Mixed	14,236.244	4,066.04	7,896.16	11,962.20
Total Softwoods	16,373,865.043	2,936,730.67	52,367,711.11	55,304,441.78
HARDWOODS				
Maple	447,910.876	541,887.18	1,004,295.35	1,546,182.53
Yellow Birch	106,381.767	189,462.90	310,479.54	499,942.44
White Birch	180,989.767	179,725.08	115,498.75	295,223.83
Oak	13,959.517	33,616.66	34,944.38	68,561.04
Beech	32,995.689	14,652.43	79,647.23	94,299.66
Ash	3,769.705	6,728.94	7,456.23	14,185.17
Elm	18.849	12.76	68.71	81.47
Basswood	27,777.339	46,573.94	51,986.25	98,560.19
Butternut	38.081	243.84	127.97	371.81
Ironwood	1.464	-	0.62	0.62
Cherry	2,268.798	808.36	6,269.62	7,077.98
Poplar	2,641,390.012	243,325.30	1,850,993.24	2,094,318.54
Hardwoods, Mixed	852,632.724	389,440.49	551,866.43	941,306.92
Total Hardwoods	4,310,134.588	1,646,477.88	4,013,634.32	5,660,112.20
GRAND TOTAL	20,683,999.631	4,583,208.55	56,381,345.43	60,964,553.98

TIMBER HARVESTED ON CROWN LANDS BY METHOD OF MEASUREMENT

in cubic metres and $000s in years ending March 31

Year	Stacked		Cubic	
	Softwood	Hardwood	Softwood	Hardwood
1980	4,698,427	770,447	6,559,707	715,644
1981	4,380,421	723,064	6,339,098	513,585
1982	3,889,894	558,760	5,070,186	611,389
1983	2,974,245	650,425	4,313,754	525,436
1984	3,192,571	499,699	5,354,306	903,933
1985	3,068,026	648,690	5,220,857	1,396,957

Year	Foot Board Measure			Mass	Total	Stumpage Value
	Grade 1	Grade 2	Grade 3			
1980	131,394	207,162	109,406	6,213,058	19,405,245	$46,184
1981	90,064	144,986	70,785	6,475,267	18,737,271	$43,727
1982	107,244	181,592	81,943	6,719,923	17,513,300	$42,453
1983	79,545	131,481	71,228	6,040,406	14,786,521	$35,037
1984	104,431	157,403	81,517	8,419,414	18,713,275	$47,151
1985	150,831	283,953	200,338	9,714,347	20,684,000	$60,965

TIMBER HARVESTED ON CROWN LANDS BY REGION

Administrative Regions of Ministry of Natural Resources
in cubic metres in years ending March 31

Region	1981	1982	1983	1984	1985
Northwestern					
Softwoods	3,925,760	3,688,116	2,888,440	3,830,981	3,856,741
Hardwoods	55,195	71,194	76,868	90,337	135,361
North Central					
Softwoods	5,138,761	4,464,605	4,007,835	4,368,590	4,706,900
Hardwoods	859,906	923,375	847,995	1,133,546	1,533,812
Northern					
Softwoods	5,576,718	4,795,869	3,945,635	5,200,631	5,778,030
Hardwoods	432,151	538,589	533,394	781,957	740,893
Northeastern					
Softwoods	1,181,886	1,315,205	1,093,690	1,517,671	1,613,782
Hardwoods	552,629	766,063	523,773	703,510	949,961
Algonquin					
Softwoods	477,330	324,081	294,264	363,038	393,113
Hardwoods	436,581	492,500	442,689	606,772	847,382
Eastern					
Softwoods	18,291	29,304	22,852	18,595	23,928
Hardwoods	82,063	104,400	104,479	97,649	101,541
Central					
Softwoods	-	-	4,607	-	1,371
Hardwoods	-	-	-	-	1,183
Southwestern					
Softwoods	-	-	-	-	-
Hardwoods	-	-	-	-	-
Totals, Ontario					
Softwoods	16,318,746	14,617,179	12,257,322	15,299,504	16,373,865
Hardwoods	2,418,525	2,896,121	2,529,198	3,413,771	4,310,135
Grand Total	18,737,271	17,513,300	14,786,521	18,713,275	20,684,000

TIMBER HARVESTED ON CROWN LANDS BY METHOD OF MEASUREMENT AND TREE SPECIES

in year ending March 31, 1985

Unit of Measurement Tree Species	Billing Units	Equivalent Cubic Metres	Crown Dues $	Stumpage Value $
STACKED, ROUGH				
White Pine	18,306.925	18,306.925	52,036.28	59,760.37
Red Pine	11,802.381	11,802.381	33,132.34	33,533.32
Jack Pine	909,061.773	909,061.773	2,931,895.16	3,017,308.07
Black Spruce	13.000	13.000	37.08	37.08
Spruce, Mixed	1,378,474.557	1,378,474.557	4,425,592.27	4,560,053.15
Hemlock	990.114	990.114	2,822.89	2,827.21
Balsam	82,422.847	82,422.847	235,717.99	245,586.17
Cedar	5,706.606	5,706.606	16,054.27	16,334.37
Tamarack	553.483	553.483	1,562.45	1,604.49
White Birch	28,412.735	28,412.735	18,358.57	46,659.85
Poplar	446,713.451	446,713.451	300,622.42	335,864.17
Hardwoods, Mixed	2,276.083	2,276.083	1,329.79	1,329.79
SUB-TOTAL	2,884,733.955	2,884,733.955	8,019,161.51	8,320,898.04
STACKED, PEELED				
Jack Pine	85,723.651	85,723.651	303,043.15	308,316.97
Spruce, Mixed	466,283.336	466,283.336	1,621,040.63	1,653,600.76
Balsam	96,887.673	96,887.673	294,502.12	301,286.66
White Birch	8.471	8.471	24.16	41.51
Poplar	53,698.421	53,698.421	43,768.78	46,317.65
SUB-TOTAL	702,601.552	702,601.552	2,262,378.84	2,309,563.55

Unit of Measurement Tree Species	Billing Units	Equivalent Cubic Metres	Crown Dues $	Stumpage Value $
CUBIC METRES				
White Pine	483,638.290	484,009.810	1,371,420.46	1,968,175.97
Red Pine	111,114.393	111,909.273	315,052.44	463,777.38
Jack Pine	929,731.543	929,731.543	3,023,364.68	3,109,269.22
White Spruce	133,134.632	133,134.632	457,003.33	463,333.89
Black Spruce	660,323.859	660,323.859	2,338,881.45	2,366,667.16
Spruce, Mixed	2,651,826.440	2,651,893.535	8,623,665.94	9,001,642.47
Hemlock	58,989.953	58,989.953	155,966.96	173,200.83
Balsam	169,898.511	169,898.511	528,090.62	549,956.48
Cedar	17,771.673	17,771.673	50,351.24	59,056.55
Tamarack	757.373	757.373	2,253.61	2,468.55
White Birch	152,378.507	152,378.507	97,013.37	248,409.47
Poplar	1,032,045.677	1,032,045.677	727,115.25	810,286.80
SUB-TOTAL	6,401,610.851	6,402,844.346	17,690,179.35	19,216,244.77
BOARD FOOT MEASURE, GRADE 1				
Maple	13,027.290	101,290.353	479,046.56	661,706.64
Yellow Birch	6,002.540	31,552.819	169,819.56	240,474.34
Oak	620.110	3,873.899	20,093.63	35,592.89
Beech	1,332.380	6,690.275	35,234.68	39,970.65
Ash	63.760	839.023	3,623.58	5,872.87
Elm	2.220	10.687	54.95	65.63
Basswood	461.410	5,849.647	25,370.71	40,625.69
Butternut	3.610	17.692	89.44	175.56
Cherry	69.170	706.579	3,100.26	3,360.79
SUB-TOTAL	21,582.490	150,830.974	736,433.37	1,027,845.06

Unit of Measurement Tree Species	Billing Units	Equivalent Cubic Metres	Crown Dues $	Stumpage Value $
BOARD FOOT MEASURE, GRADE 2				
Maple	24,876.800	198,282.605	461,280.75	694,086.21
Yellow Birch	9,050.710	51,280.776	129,932.82	237,277.13
Oak	900.590	5,714.254	12,955.03	27,079.90
Beech	2,805.130	15,557.718	39,422.03	46,559.75
Ash	110.190	1,549.500	3,271.12	5,967.62
Elm	0.920	4.578	12.18	14.26
Basswood	691.860	10,280.608	21,786.30	40,838.47
Butternut	2.770	15.541	36.56	185.22
Cherry	181.800	1,267.159	3,033.92	3,526.24
SUB-TOTAL	38,620.770	283,952.739	671,730.71	1,055,534.80
BOARD FOOT MEASURE, GRADE 3				
Maple	13,671.270	148,337.918	63,968.04	190,389.68
Yellow Birch	3,128.040	23,548.172	10,727.16	22,190.97
Oak	572.660	4,371.364	1,895.72	5,888.25
Beech	1,707.270	10,747.696	4,990.52	7,769.26
Ash	63.880	1,381.182	561.53	2,344.68
Elm	0.610	3.584	1.58	1.58
Basswood	814.500	11,647.084	4,829.24	17,096.03
Butternut	0.720	4.848	1.97	11.03
Ironwood	0.230	1.464	0.62	0.62
Cherry	51.990	295.060	135.44	190.95
SUB-TOTAL	20,011.170	200,338.372	87,111.82	245,883.05

Units of Measurement Tree Species	Billing Units	Equivalent Cubic Metres	Crown Dues $	Stumpage Value $
MASS-SCALED WOOD				
White Pine	185,496.599	225,939.814	650,779.27	940,402.34
Red Pine	62,724.455	74,142.385	216,695.70	286,281.46
Jack Pine	2,984,609.399	3,693,757.103	11,786,429.11	12,215,814.30
Spruce, Mixed	2,843,422.334	3,697,558.141	11,692,326.00	12,223,139.26
Hemlock	17,863.889	19,249.875	57,718.14	59,999.68
Balsam	351,421.060	374,334.973	1,172,379.37	1,209,045.42
Poplar	1,098,872.784	1,108,851.885	779,434.28	901,781.29
Hardwoods, Mixed	573,998.363	512,501.540	346,790.55	486,696.19
SUB-TOTAL	8,118,408.883	9,706,335.716	26,702,552.42	28,323,159.94
FUELWOOD, STACKED, CUBIC METRES				
Conifers, Mixed	11,799.459	11,799.459	6,178.80	6,443.61
Hardwoods, Mixed	117,851.911	117,581.076	72,808.43	128,466.61
SUB-TOTAL	129,651.370	129,380.535	78,987.23	134,910.22
FUELWOOD, CUBIC METRES				
Conifers, Mixed	2,436.785	2,436.785	1,717.36	5,518.59
White Birch	190.054	190.054	102.65	113.00
Poplar	80.578	80.578	52.51	68.63
Hardwoods, Mixed	212,262.293	212,262.293	125,098.36	226,863.35
SUB-TOTAL	214,969.710	214,969.710	126,970.88	232,563.57
FUELWOOD, MASS-SCALED				
Hardwoods, Mixed	9,215.237	8,011.732	5,839.30	97,950.98
SUB-TOTAL	9,215.237	8,011.732	5,839.30	97,950.98
TOTAL TIMBER CUT IN PROVINCE		20,683,999.631	56,381,345.43	60,964,553.98

Number of District Cutting Licences/Permits issued and included in the above: 3,016

PRINCIPAL STATISTICS OF ONTARIO'S FOREST INDUSTRY BY SECTOR

Source: Statistics Canada

Sector	Establishments Number	Total Employees Number	Total Salaries & Wages $000s	Fuel and Electricity $000s
1979				
Logging	321	9,684	197,276	17,084
Wood Industries	761	22,902	320,144	31,134
Paper and Allied	334	46,172	827,101	252,576
Total	1,416	78,758	1,344,521	300,794
Furniture and Fixtures	618	23,650	307,672	9,856
1980				
Logging	391	9,578	215,652	24,072
Wood Industries	778	21,348	328,793	33,475
Paper & Allied	349	47,861	926,779	279,530
Total	1,518	78,787	1,471,224	337,077
Furniture and Fixtures	607	23,703	340,550	11,254
1981				
Logging	418	9,003	230,052	30,562
Wood Industries	774	20,970	362,998	43,705
Paper & Allied	342	47,381	1,044,810	324,780
Total	1,534	77,354	1,637,860	399,047
Furniture and Fixtures	610	25,856	416,922	15,181
1982				
Logging	418	7,079	193,796	33,320
Wood Industries	794	19,015	334,260	46,144
Paper & Allied	347	43,917	1,078,919	351,385
Total	1,559	70,011	1,606,975	430,849
Furniture and Fixtures	644	23,684	398,558	19,285
1983				
Logging	472	7,826	227,797	39,425
Wood Industries	820	19,562	381,158	54,659
Paper & Allied	301	41,001	1,110,512	381,789
Total	1,593	68,389	1,719,467	475,873
Furniture and Fixtures	707	23,218	427,289	21,244

Sector	Materials & Supplies $000s	Value of Shipments $000s	Total Value Added $000s
1979			
Logging	306,121	588,598	278,921
Wood Industries	690,807	1,319,647	629,169
Paper and Allied	2,007,803	3,872,205	1,661,591
Total	3,004,731	5,780,450	2,569,681
Furniture and Fixtures	503,463	1,043,909	547,979
1980			
Logging	365,267	668,003	319,883
Wood Industries	712,130	1,275,892	562,631
Paper and Allied	2,368,722	4,598,977	1,992,117
Total	3,446,119	6,542,872	2,874,631
Furniture and Fixtures	606,934	1,224,628	615,070
1981			
Logging	381,431	717,927	327,515
Wood Industries	791,939	1,436,082	619,138
Paper and Allied	2,702,821	5,129,829	2,136,084
Total	3,876,191	7,283,838	3,082,737
Furniture and Fixtures	718,103	1,455,964	755,591
1982			
Logging	346,243	678,892	287,982
Wood Industries	678,066	1,256,366	525,522
Paper & Allied	2,596,915	4,841,076	1,939,371
Total	3,621,224	6,776,334	2,752,875
Furniture and Fixtures	646,963	1,347,435	682,402
1983			
Logging	398,704	793,959	355,758
Wood Industries	848,804	1,572,204	698,513
Paper & Allied	2,676,283	5,041,628	2,010,011
Total	3,923,791	7,407,791	3,064,282
Furniture and Fixtures	726,011	1,527,767	785,223

Note:
Furniture and Fixtures does not include furniture upholstery, re-upholstery and repair shops.

MINERAL RESOURCES GROUP*

Room W-6341, Main Office Telephone: (416) 965-4271

Executive Co-ordinator.....	J. E. Finlay.....	W-6341.....4271
Secretary.....	Ms. P. Barchuk.....	W-6341.....4271
Communications Planner.....	E. B. Freeman.....	W-4642.....3127

ONTARIO GEOLOGICAL SURVEY

Room 1121, 77 Grenville St., Toronto, Ont. M5S 1B3 Telephone: (416) 965-1283

Director.....	Dr. V. G. Milne.....	R-1121.....1283
Executive Officer.....	G. Fromhold-Treu.....	R-1118.....1283
Regional Liaison Geologist.....	C. R. Kustra.....	R-1119.....5180
Geoscience Research Grant Program	R. B. Watson.....	R-1125.....1546
Exploration Technology Dev. Fund.	R. B. Watson.....	R-1125.....1546
Precambrian Geology Section.....	J. Wood, Chief.....	R-916.....1321
North Archean Group.....	H. Wallace.....	R-901.....1827
Central Archean Group.....	Dr. P. C. Thurston.....	R-924.....1827
South Archean Group.....	N. F. Trowell.....	R-907.....4817
Proterozoic Group.....	Dr. B. O. Dressler.....	R-903.....2326
Engineering & Terrain Geology Section.....	Dr. O. L. White, Chief..	R-707.....1182
Paleozoic & Mesozoic Subsection	Dr. P. G. Telford.....	R-706.....1183
Hydrocarbon Energy Res. Program	Dr. P. G. Telford.....	R-706.....1183
Quaternary Geology Subsection..	E. V. Sado.....	R-705.....1183
Aggregate Assessment Office....	S. Szoke.....	M1B-45.....1663
Geophysics/Geochemistry Section	R. B. Barlow, Chief.....	R-708.....1697
Mineral Deposits Section.....	Dr. A. C. Colvine, Chief	R-1026.....4261
Geoservices Section.....	G. E. Soucie, Chief.....	R-915.....5601
Geoscience Data Centre.....	H. A. Groen.....	R-804.....4641
Assessment Files Research.....	R. C. Owen.....	R-819.....6139
Geoscience Information.....	R. McKnight.....	R-807.....0190
Scientific Review.....	Mrs. G. M. Scott.....	R-718.....7325
Geoscience Laboratories.....	Dr. C. Riddle.....	R-1117.....1337
Mines Library.....	Mrs. N. Thurston.....	R-812.....1352

*See Mining Lands and Prospecting Activities under Lands Administration Branch.

LIST OF FIELD SURVEYS (REGULAR PROGRAM)

Ontario Geological Survey 1984

No.	Location	Leaders
	PRECAMBRIAN GEOLOGY SECTION	
1.	Regional Stratigraphy and Structure of the Central Uchi Subprovine.....	G. M. Stott H. Wallace
2.	Reconnaissance Investigations of Granitoid and Metasedimentary Terrains.....	G. Beakhouse
3.	Kakagi Lake-Rowan Lake Regional Geology.....	G. W. Johns
4.	Geology of the Mulcahy Lake Gabbro Intrusion.....	R. H. Sutcliffe
5.	Atikokan-Lakehead Compilation Project.....	P. C. Thurston
6.	Goldie and Horne Townships, District of Thunder Bay	M. W. Carter
7.	Hemlo Stratigraphic Study.....	T. L. Muir
8.	White Lake Area and Animons Lake Area, District of Thunder Bay.....	G. M. Siragusa
9.	Josephine-Goudreau Area, District of Algoma.....	R. P. Sage
10.	Batchawana Synoptic Project.....	E. C. Grunsky
11.	Geochronological Studies in the Batchawana Area....	E. C. Grunsky
12.	Snider Township, District of Sudbury.....	J. M. Martins
13.	Footwall and Sublayer of the Northwestern Sudbury Igneous Complex.....	P. Brockmeyer R. Lakomy
14.	Digby-Lutterworth Area, Haliburton and Victoria.... Counties.....	R. M. Easton M. Van Kranendonk
15.	Mellon Lake Area, Hastings, Lennox and Addington Counties.....	E. G. Bright
16.	Geological Computer Software Developments.....	E. J. Ambrose D. Wright E. C. Grunsky
	ENGINEERING AND TERRAIN GEOLOGY PROGRAMS	
17.	Quaternary Geology of the Hemlo Area.....	R. S. Geddes
18.	Quaternary Geology of the Port Stanley Area.....	A. Dreimanis P. J. Barnett
19.	Quaternary Geology of the Brampton Area.....	P. F. Karrow
20.	Aggregate Resources Inventory Program, Staff of the Aggregate Assessment Office.....	
	GEOPHYSICS/GEOCHEMISTRY PROGRAMS	
21.	Gravity Mapping in the Kirkland Lake-Larder Lake-Matheson Area.....	V. K. Gupta D. R. Wadge P. H. Mark
22.	Applicatiions of Gravity Maps in Geological Mapping and Mineral Exploration.....	V. K. Gupta
23.	Electromagnetic Depth Sounding of Quaternary Sequences in Black River-Matheson (BRIM) Area.....	R. B. Barlow D. H. Krentz
24.	Night Hawk Geophysical Test Range Results.....	R. B. Barlow
25.	The Use of Remote Sensing for the Study of Acid Lakes.....	J.A.C. Fortescue

MINERAL DEPOSIT PROGRAMS

26. Gold Studies in the Red Lake Area.....	A. J. Andrews M. J. Lavigne
27. Alteration, Metamorphism, and Structure Associated with Archean Volcanic-Hosted Gold Deposits.....	A. J. Andrews
28. Ductile Deformation Zones and their Significance in the Tectonic and Mineralization History of the Red Lake Belt.....	H. Hugon
29. Structural Studies in Northern Dome and Southern McDonough Townships, Red Lake District.....	P. M. Berger H. Helmtaedt
30. Shear Fracturing, Dike and Vein Intrusion, and Gold Mineralization in the Red Lake Belt.....	B. C. Wilson H. Helmstaedt J. M. Dixon
31. Structural Geology and Mineralization of the West Carbonate Zone, Red Lake.....	M. M. Sanborn
32. The Hemlo Deposit: Gold Mineralization Within a Dextral Shear Zone.....	H. Hugon
33. Studies of Mineral Deposits in the Abitibi Belt....	M. E. Cherry
34. Structural Geology and Gold Mineralization in the Kirkland Lake-Larder Lake Deformation Zone.....	J. V. Hamilton C. J. Hodgson
35. Preliminary Report on the Geology of the Detour Lake Gold Mine.....	S. Marmont
36. Geology of the McLean Lake-Lundy Lake Area.....	L. Owsiacki
37. Age-dating of Gold Mineralization in the Abitibi Belt.....	S. Marmont
38. Geology and Placer Related Gold Potential of the Huronian Supergroup.....	D.G.F. Long A. C. Colvine
39. Granite and Anorthosite as Ceramic Raw Materials...	M. A. Vos

LIST OF FIELD SURVEYS (SPECIAL PROGRAM)

Ontario Geological Survey 1984

No.	Location	Leaders
	PRECAMBRIAN GEOLOGY PROGRAMS	
1.	Geology of the Bigstone Bay Area.....	J. A. Ayer
2.	MacGregor Township, District of Thunder Bay.....	J. Scott
	ENGINEERING AND TERRAIN GEOLOGY PROGRAMS	
3.	Peatland Inventory Project.....	J. L. Riley
4.	Geology of the Long Rapids Formation, Moose River.....	D. J. Russell
	Basin, James Bay Lowland.....	P. G. Telford
5.	Lignite Assessment Project, Moose River Basin, James Bay Lowland.....	P. G. Telford
	MINERAL DEPOSITS PROGRAMS	
6.	The Structural and Stratigraphic Control of Gold in the Lake of the Woods Area.....	J. C. Davies P. M. Smith
7.	The Geological Setting of the Duport Mine, Cameron Island, Shoal Lake.....	P. M. Smith
8.	Gold Mineralization in the Shebandowan Area.....	L. Chorlton G. H. Brown
9.	Structural Studies in the Geraldton Area.....	S. Buck H. R. Williams
	INTERDISCIPLINARY GEOSCIENCE PROGRAMS	
10.	The Opapimiskan Lake Project Precambrian Geology, Quaternary Geology and Mineral Deposits of the North Caribou Lake Area, District of Kenora, Patricia Portion.....	F. W. Breaks J. R. Bartlett E. A. DeKemp P. F. Finamore G. R. Jones A. J. Macdonald H. N. Shields H. Wallace
	The Black River - Matheson (BRIM) Program	
11.	Precambrian Geology.....	R. Johnstone N. F. Trowell
12.	Quaternary Geology of the Porquois Junction and Watabeag River.....	J. A. Richard
13.	An Airborne Electromagnetic-Magnetic Survey.....	R. B. Barlow D. H. Pitcher
14.	Mineral Deposits Investigations.....	P. J. Whittaker J. Malczak
15.	Reconnaissance Till Sampling Program.....	C. L. Baker K. G. Steele J.A.C. Fortescue
16.	Mapping Overburden, Employing an Airborne Time-Domain System.....	D. H. Pitcher R. Barlow J. D. McNeill

GEOSCIENCE RESEARCH GRANT PROGRAM

Summary of projects and allocations in years ending March 31

	1981	1982	1983	1984	1985
Universities	Projects	Projects	Projects	Projects	Projects
Brock.....	1	2	1	1	-
Carleton.....	2	1	2	2	3
Guelph.....	-	-	-	-	-
Lakehead.....	1	-	-	-	1
Laurentian.....	3	1	-	-	-
McMaster.....	1	1	1	1	3
Ottawa.....	-	-	-	-	1
Queen's.....	3	1	3	3	3
Toronto.....	10	8	9	9	7
Waterloo.....	2	2	3	3	3
Western.....	5	4	2	2	2
Windsor.....	1	1	1	1	-
York.....	-	-	1	1	1
Total.....	29	21	23	23	24
	$536,447	$418,289	$500,000	$500,000	$451,700

EXPLORATION TECHNOLOGY DEVELOPMENT FUND PROGRAM

Summary of projects and allocations in years ending March 31

Company	Projects Accepted	Projects Accepted	Projects Accepted	Projects Accepted
	1982	1983	1984	1985
A-Cubed Inc.	-	-	-	1
Aerodat Ltd.	-	-	1	-
Alpha NUCLEAR Company.	1	1	-	-
Androtex Ltd.	-	1	1	1
C.W. Archibald Ltd.	-	1	-	-
Barringer Magenta/Research Ltd.	2	-	2	1
Crone Geophysics Ltd.	1	1	1	1
Dighem Ltd.	-	1	1	1
EDA Instruments Incorporated.	1	-	-	1
GEM Systems Ltd.	1	1	-	1
Geonics Ltd.	-	-	1	-
Geotech Ltd.	1	1	1	1
G. F. Gleeson & Associates and Terrain Analysis and Mapping Services Ltd.	-	-	1	-
Herz Industries Ltd.	-	1	-	-
Huntec ('70) Ltd.	-	1	1	-
IFG Company.	-	-	1	1
Jodex Applied Geoscience Ltd.	-	-	-	1
Lamontagne Geophysics Ltd.	1	1	1	1
McPhar Instruments Corp.	-	1	1	-
Morris Magnetics.	-	-	1	2
Nuclear Activation Services Ltd.	1	1	1	-
Paterson, Grant & Watson Ltd.	1	1	1	1
Phoenix Geophysics Ltd.	1	1	1	1
Questor Surveys Ltd.	2	2	1	-
RMS Instruments Ltd.	-	-	1	1
Scintrex Ltd.	1	1	2	-
Technical Services Laboratories Ltd.	1	-	-	-
X-Ray Assay Laboratories Ltd.	-	-	1	1
X-Ray Assay Laboratories Ltd. and Teck Exploration Ltd.	-	-	-	1
Accepted.	15	17	22	18
Grants Paid.	$520,000	$985,000	$894,267	$876,300

PUBLICATIONS RELEASED

Ontario Geological Survey

Types of Publication	1979	1980	1981	1982	1983	1984
Preliminary Maps	183	205	134	143	53	75
Geoscience Data Inventory Folios	-	-	-	1	102	76
Colored Geology Maps	14	9	21	12	15	25
N. Ontario Engineering & Terrain Geology Maps	11	51	31	-	15	-
Geophysical/Geochemical Maps	426	34	77	36	1	142
Aggregate Resource Inventory Papers	1	21	19	18	8	19
Guidebooks	1	-	-	-	1	1
Mineral Deposit Circulars	2	-	4	1	-	-
Miscellaneous Papers	7	7	8	7	11	7
Non-Serial Publications	3	4	7	8	13	7
N. Ontario Engineering & Terrain Studies	-	42	24	-	10	-
Open File Reports	22	42	41	32	52	52
Reports	11	7	12	10	10	4
Studies	1	-	1	3	3	-

GEOSCIENCE DATA CENTRE

Office Operations	1979	1980	1981	1982	1983	1984	1946-84
EXPLORATION REPORTS ADDED							
Technical Surveys for Assessment Credit	350	453	821	860	918	1,381	10,997
MEAP	50	46	*35	-	-	-	518
OMEP	-	-	-	-	103	131	234
Miscellaneous	77	150	75	72	67	103	1,434
Drilling Reports	340	310	388	361	407	538	10,725
Licence of Occupation	(a)	(a)	3	3	-	-	83
OPERATIONS							
Customer Days	2,150	2,606	2,444	2,123	3,061	3,165	
Telephone Inquiries	437	553	569	385	369	356	
Exploration Reports Examined	15,640	17,696	17,769	14,603	21,757	20,544	
Mineral Deposit Files Examined	2,560	5,024	4,729	4,647	7,713	12,065	

Mineral Resources Group

MINERAL RESOURCES BRANCH

Room W-4626, Main Office Telephone (416) 965-1559

Branch Director.....	Dr. T. P. Mohide.....	W-4626...5-1559
Mineral Statistics Section.....	G. L. Weatherson, Spvr..	W-4632...5-0211
Metallic Minerals Section.....	Dr. G. Anders, Spvr.....	W-4625...5-1311
Industrial Minerals Section.....	D. W. Scott, Spvr.....	W-4646...5-1172
Fuel Minerals Section.....	S. Keen, Spvr.....	W-4629...3-1882

ONTARIO MINERAL PRODUCTION IN 1983 AND 1984

1984 figures are preliminary

	Unit	1983 Quantity	1983 Value $	1984 Quantity	1984 Value $
METALLIC MINERALS					
Cadmium	kg	668,402	1,637,862	1,015,000	4,957,000
Calcium	kg	398,984	3,306,450	N/A	N/A
Colbalt	kg	1,024,768	16,602,079	1,890,000	54,304,000
Copper	kg	226,796,167	457,348,815	291,107,000	552,231,000
Gold	g	23,260,217	389,337,983	26,472,000	399,731,000
Iron Ore	tonne	3,815,698	183,793,038	4,478,000	235,065,000
Lead	kg	6,543,900	2,865,309	8,223,000	6,050,000
Magnesium	kg	5,980,265	21,978,106	N/A	N/A
Nickel	kg	88,291,560	550,124,912	138,417,000	925,871,000
Platinum Grp.	kg	6,964	79,155,805	10,614	120,643,000
Selenium	kg	35,254	334,615	224,000	5,763,000
Silver	kg	414,696	197,916,854	506,000	177,010,000
Tellurium	kg	1,264	34,633	14,000	394,000
Tin	kg	3,732	81,495	-	-
Uranium (U)	kg	4,767,120	535,770,365	4,381,000	538,733,000
Zinc	kg	274,818,534	280,505,720	294,237,000	413,991,000
Total Value, Metallics			2,720,794,041		3,434,743,000

	Unit	1983 Quantity	1983 Value $	1984 Quantity	1984 Value $
NON-METALLIC MINERALS					
Barite	tonne	5,000	1,600,000	N/A	1,500,000
Gemstone	kg	54,000	63,525	N/A	56,000
Gypsum	tonne	907,042	9,937,629	1,104,000	13,408,000
Magnetite	tonne	3,304	39,941	N/A	N/A
Nepheline Syenite	tonne	523,249	18,912,825	485,000	17,671,000
Peat	tonne	4,629	711,443	7,000	803,000
Quartz	tonne	386,706	10,559,822	390,000	10,400,000
Salt	tonne	5,479,984	98,726,006	6,502,000	124,397,000
Serpentine Filler	tonne	3,407	443,364	N/A	N/A
Soapstone Talc	tonne	32,877	6,060,101	38,000	6,980,000
Sulphur in smelter gas	tonne	332,041	19,215,783	441,000	34,042,000
Sulphur Elemental	tonne	6,711	494,691	3,000	240,000
Terrazzo Chip	tonne	1,415	95,187	N/A	N/A
Total Value, Non-Metallic			166,860,317		209,497,000
FUELS					
Natural Gas	000 cu.m.	459,313	45,931,250	453,000	57,033,000
Petroleum	000 cu.m.	84,788	16,109,720	92,000	17,587,000
Total Value, Fuels			62,040,970		74,620,000

	Unit	1983 Quantity	1983 Value $	1984 Quantity	1984 Value $
STRUCTURAL MATERIALS					
Clay Prod.	-	N/A	73,297,428	N/A	86,130,000
Cement	tonne	3,200,775	212,263,334	3,100,000	222,859,000
Lime	tonne	1,586,375	89,251,887	1,545,000	91,000,000
Sand & Gravel	tonne	53,582,186	120,231,677	50,000,000	120,000,000
Stone	tonne	33,831,836	143,703,182	30,000,000	145,000,000
Total Value Structural Materials			638,747,508		664,989,000
GRAND TOTAL FOR ONTARIO			3,588,442,836		4,383,849,000

DIRECT COSTS OF THE MINERAL INDUSTRY IN ONTARIO

Year	Total Employment	Wages & Salaries $	Fuel & Electricity $	Process Supplies $	Total Cost $
1975	44,329	568,817,097	154,748,157	375,688,838	1,099,254,092
1976	44,585	647,549,765	199,216,913	424,029,472	1,270,796,150
1977	43,782	688,435,301	224,263,043	429,950,598	1,342,648,942
1978	33,234	589,143,142	199,018,565	392,059,456	1,180,221,163
1979	33,860	675,471,862	245,536,846	447,427,618	1,368,436,326
1980	41,252	863,044,670	296,889,343	601,153,558	1,761,087,571
1981	41,522	982,665,625	349,709,968	673,489,373	2,005,864,966
1982	38,277	948,599,962	306,710,300	494,342,597	1,749,652,859
1983	35,275*	973,229,166	348,537,991	531,633,004	1,853,400,161

*37,275 including 2,000 estimate of small sand & gravel and stone industries.

Source: Mineral Statistics Section, Ministry of Natural Resources

VALUE OF ONTARIO MINERAL OUTPUT BY MNR REGION

MNR Region	1981 $	1982 $	1983 $
Algonquin Region			
Metallic Minerals	57,453,827	43,254,750	25,284,556
Non-metallic Minerals	17,609,906	17,933,892	18,952,766
Structural Materials	7,492,080	6,718,196	7,194,430
Total	82,555,813	67,906,838	51,431,752
Central Region			
Non-metallic Minerals	6,051,925	5,042,818	8,467,360
Natural Gas, Petroleum	1,165,152	1,128,305	1,229,210
Structural Materials	310,159,188	267,295,017	304,650,987
Total	317,376,265	273,466,140	314,347,557
Eastern Region			
Metallic Minerals	-	-	-
Non-metallic Minerals	626,327	720,846	1,289,241
Structural Materials	110,245,387	93,413,196	119,304,217
Total	110,871,714	94,134,042	120,593,458
North Central Region			
Metallic Minerals	107,652,059	96,071,087	104,490,748
Non-metallic Minerals	822,162	1,147,061	1,392,724
Structural Materials	7,476,124	6,749,816	8,965,836
Total	115,950,345	103,967,964	114,849,308

Northern Region			
Metallic Minerals	663,110,786	587,232,675	763,842,594
Non-metallic Minerals	6,529,727	10,041,788	13,426,866
Structural Materials	3,819,641	5,113,479	11,837,550
Total	673,460,154	602,387,942	789,107,010
Northeastern Region			
Metallic Minerals	2,194,717,693	1,375,065,540	1,526,563,192
Non-metallic Minerals	22,278,600	16,104,557	20,352,988
Natural Gas, Petroleum	-	-	3,420
Structural Materials	33,718,092	29,341,235	32,060,558
Total	2,250,714,385	1,420,511,332	1,578,980,158
Northwestern Region			
Metallic Minerals	296,700,224	247,712,787	300,612,951
Non-Metallic Minerals	884,781	666,134	1,592,163
Structural Materials	7,447,174	6,812,735	7,140,509
Total	305,032,179	255,191,656	309,345,623
Southwestern Region			
Natural Gas, Petroleum	44,503,163	54,993,391	60,808,340
Non-metallic Minerals	83,102,024	96,609,379	101,386,209
Structural Materials	147,306,189	130,884,042	147,593,421
Total	274,911,376	282,486,812	309,787,970
ONTARIO TOTAL	4,130,872,231	3,100,052,726	3,588,442,836

MINERAL RESOURCES GROUP

MINING TAXATION & OMEP OFFICE

Room W-4649, Main Office Telephone (416) 965-1062

Director and Mine Assessor.....	K. S. Rachamalla.....	W-4649.....1062
Assistant Mine Assessors.....	A. Cutrona.....	W-4654.....9955
	R. Gunther.....	W-4654.....9955
	A. Stoddart.....	W-4654.....9955
OMEP		
Administrator.....	.....	W-4650.....1062
Evaluator.....	R. B. Huggins.....	W-4641.....1062

MINING TAX

Summary of mining tax in years ending March 31

	1982 $ value millions	1983 $ value millions	1984 $ value millions	1985 $ value millions
Mining Tax Collected.....	55.4	26.2	31.9	64.5
Total value of mineral production assessed.....	1,720.9	2,530.0	940.9	4,348.8
Taxes payable per assessments...	88.9	96.2	37.2	263.1
Total additional tax, interest & penalty.....	2.2	12.1	1.6	29.0
Total refund of taxes (paid in advance).....	4.8	4.8	0.3	0.2
No. of assessments completed....	48	48	41	74

OMEP ACTIVITY

In years ending March 31

	1981	1982	1983	1984	1985
Number of applications received....	114	159	209	398	439
Number of applications designated..	94	137	213	386	408
Number of designated programs completed and evaluated.....	33	49	159	182	196
Value of grants/tax credits issued for completed programs ($ millions).....	$1.3	$1.4	$4.6	$6.4	$6.4

OMEP DESIGNATED PROGRAMS BY COMMODITIES

In years ending March 31

	% of Total Expenditure				
	1981	1982	1983	1984	1985
Gold, Silver.....	86	77	85	94	95
Base Metals.....	4	6	3	2	1
Industrial Minerals.....	9	16	7	1	1
Other (uranium, etc.).....	1	1	5	3	3
Total	100	100	100	100	100

DETAILS OF COMPLETED OMEP PROGRAMS: ECONOMIC BENEFITS

In years ending March 31

	1981	1982	1983	1984	1985
EMPLOYMENT					
Number Employed.....	430	550	1,600	2,100	2,450
Work days.....	13,550	17,710	61,780	83,170	83,290
WAGES ($ million).....	$1.1	$1.7	$6.6	$8.1	$10.6
GOODS & SERVICES ($ million)	$5.0	$5.6	$17.4	$23.5	$20.2
DIAMOND DRILLING (metres)...	50,450	37,400	133,550	142,690	173,040

OMEP COMPLETED PROGRAMS: REGIONAL DISTRIBUTION

in years ending March 31

	No. of Programs		Total Expenditure ($ millons)		Grants/ Tax Credits (millions)		% of Total	
MNR Regions	1984	1985	1984	1985	1984	1985	1984	1985
Northern.....	54	49	$12	$11	$2.1	$2.3	39	36
Northwestern.....	47	47	9	10	1.8	1.9	27	30
Northeastern.....	19	31	4	3	.9	.6	13	9
North Central.....	52	63	6	6	1.5	1.5	20	23
Algonquin & Eastern	10	6	1	1	.1	.1	1	2
Total	182	196	$32	$31	$6.4	$6.4	100	100

OUTDOOR RECREATION GROUP

Room W2340, Main Office Telephone (416) 965-5661

Executive Co-ordinator	T. J. Millard	W-2341...5-5661
Secretary	N. Ball	W-2340...5-5661
Enforcement Specialist	W. D. Gartley	W-2342...5-5661
Librarian	S. Louet	W-4540...5-6319
Provincial Parks Council Chairman	F. Gray	(416) 368-8305 Ex. 2574

WILDLIFE BRANCH

Room W-2320, Main Office Telephone (416) 965-4252

Branch Director	D. W. Simkin	W-2327....4254
Wildlife Planning Co-ordinator	W. L. Sleeth	W-2325....7641
Program Development & Audit Section	D. A. Hagan, Spvr	W-2321....4252
Habitat Development	D. M. Hogg	W-2309....7641
Moose/Caribou Program	R. A. Stefanski	W-2331....4252
Upland Game/Waterfowl Program	J. L. Harcus	W-2332....4252
Deer/Bear Program	H. Smith	W-2323....4252
Non-game Program	I. E. Bowman	W-2330....4252
Wetland Habitat	V. A. Glooschenko	W-2322....7641
Extension Development Section	L. Whistance-Smith, Spvr	W-2326....4252
Wildlife Extension Officer	H. D. Jenkins	W-2320....4252
Wildlife Services Section	M. C. Smith, Spvr	W-2328....4252
Commercial Wildlife Program	M. Novak	W-2423....3345
Hunter Education	W. M. McKittrick	W-2306....7641
Legal Services	M. Chromec	W-2329....4252
Data System	J. M. Barbowski	W-2304....7641

Box 50, Maple, Ont. L0J 1E0 Telephone (416) 832-2761

Wildlife Research Section	C. D. MacInnes, Spvr	Extension..241
Population Dynamics	D. J. Hussell	Extension..241
Bio-Electronic Scientist	Vacant	Extension..241
Field Studies Scientist	D. R. Voigt	Extension..241
Rabies Unit Leader	D. H. Johnston	Extension..241
Upland Game/Waterfowl Scientist	H. G. Lumsden	Extension..241
Predator Scientist	G. B. Kolenosky	Extension..241
Disease/Parasites Scientist	E. M. Addison	Extension..241

HUNTING STATISTICS - Estimates compiled from hunters surveyed by mail

Comparison between hunter numbers and licence sales gives an estimate of the number of licence holders who did not hunt

	RESIDENT			NON-RESIDENT		
Year	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest
MOOSE						
1979	70,770	529,400	10,110	7,220	54,600	1,580
1980	71,670	426,700	7,670	3,930	25,200	690
1981	66,850	405,500	7,630	3,110	19,400	460
1982	85,630	508,100	10,150	3,060	19,200	550
1983	69,780	537,400	8,640	2,080	13,300	410
DEER						
1979	78,440	415,800	13,200	1,560	8,700	*370
1980	80,280	443,200	9,150	780	4,400	110
1981	84,590	469,500	10,610	590	3,000	70
1982	91,750	500,300	11,870	560	2,900	90
1983	99,690	573,400	18,930	510	2,800	80
SMALL GAME **						
1976-77	242,310	3,388,000		8,530	62,300	
1978-79	226,693	2,975,400		8,724	55,100	
1979-80	214,550	2,829,600		10,520	65,700	
1980-81	220,020	2,781,300		11,170	76,100	
BEAR						
1981	8,170	58,300	1,370	12,230	81,400	3,700
1983	10,660	90,600	1,720	15,060	101,300	4,820

TOTALS			
Year	Hunters	Hunter Days	Harvest
MOOSE			
1979	77,990	584,000	11,690
1980	75,600	451,900	8,360
1981	69,960	429,900	8,090
1982	88,690	527,300	10,700
1983	71,860	550,700	9,050
DEER			
1979	80,000	424,500	*13,570
1980	81,060	447,600	9,260
1981	85,180	472,500	10,680
1982	92,310	503,200	11,960
1983	100,200	576,200	19,010
BEAR			
1981	20,400	139,700	5,070
1983	25,720	191,900	6,540

* Includes deer harvested on moose licences.
** Includes waterfowl.

EXPENDITURE BY HUNTERS - (Excluding Licence Fees)

Survey Year*	Estimates compiled from Hunters Surveyed by Mail Hunt	Resident	Non-Resident	Total
1976-77	Moose	17,821,000	3,192,000	21,013,000
1979-80	Moose	22,833,000	3,803,000	26,636,000
1980-81	Moose	21,334,000	2,302,000	23,636,000
1981-82	Moose	23,576,000	1,929,000	25,505,000
1982-83	Moose	28,900,000	1,889,000	30,789,000
1983-84	Moose	28,856,000	1,597,000	30,453,000
1976-77	Deer	12,000,000	809,000	12,809,000
1979-80	Deer	14,892,000	548,000	15,440,000
1980-81	Deer	15,887,000	297,000	16,184,000
1981-82	Deer	18,163,000	229,000	18,392,000
1982-83	Deer	20,306,000	240,000	20,546,000
1983-84	Deer	24,038,000	230,000	24,268,000
1976-77	Small Game	53,561,000	3,252,000	56,813,000
1978-79	Small Game	47,634,000	3,278,431	50,912,431
1979-80	Small Game	47,162,000	4,413,000	51,575,000
1980-81	Small Game	50,000,000	4,563,000	54,563,000
1981-82	Bear	2,233,000	5,352,000	7,585,000
1983-84	Bear	3,724,000	8,012,000	11,736,000

HUNTING LICENCES SOLD

Year	DEER		MOOSE		BEAR	
	Resident	Non-Res.	Resident	Non-Res.	Resident	Non-Res.
1980-81	87,985	823	79,688	4,011	9,064	11,682
1981-82	91,695	630	73,851	3,214	13,736	13,341
1982-83	101,712	570	92,393	3,111	13,817	14,639
1983-84	112,318	535	75,650	2,148	15,464	16,109
1984-85	114,729	556	89,492	2,201	13,696	16,160

Year	SMALL GAME		TOTAL		
	Resident	Non-Res.	Resident	Non-Res.	Total
1980-81	383,091*	12,783	559,828	29,299	589,127
1981-82	337,736*	12,492	538,432	29,677	568,109
1982-83	338,279	11,202	546,201	29,522	575,723
1983-84	321,484	10,844	524,916	29,636	554,552
1984-85	306,682	11,332	524,599	30,249	554,848

* Includes summer hunting tag.

FUR HARVESTS

in years ending June 30

Average Pelt value, 1983 $		Totals from Sealing Officers' Reports and Fur Dealers' Returns		
		1982	1983	1984
22.93	Beaver	143,352	141,648	119,080
32.44	Mink	30,372	21,575	16,183
53.44	Marten	60,705	58,522	64,545
58.80	Otter	9,506	10,189	7,576
160.68	Fisher	3,717	4,413	3,725
330.90	Lynx	2,913	2,888	1,707
102.50	Bobcat	30	47	26
5.47	Muskrat	435,741	617,459	450,634
15.56	Raccoon	150,932	126,636	72,844
.36	Squirrel	8,693	7,652	3,229
.99	Weasel	6,314	3,941	3,281
55.83	Coloured Fox	25,462	21,929	19,629
57.28	Arctic Fox	217	106	44
58.96	Timber Wolf	1,311	1,154	884
27.85	Coyote	2,784	2,347	2,718
123.92	Black Bear	230	120	132
171.66	Wolverine	22	26	12
3.08	Skunk	425	536	264
37.50	Grey Fox	2	5	11
450.00	Polar Bear	28	4	19
5.00	Badger	2	7	7
5.00	Opossum	3	53	89
Total Pelts		882,761	1,021,257	766,639
Total Value		16,660,204	14,343,082	13,173,998

Total royalties collected in 1983-84 $559,482.00

TRAPPER LICENCES, 1981

Registered	3,123 @ $5 =	$15,615
Resident	9,991 @ $5 =	$49,955
Farmer, Indian Reservations	1,612 @ $0 =	---
Registered Treaty	3,315 @ $1 =	$ 3,315
Resident Treaty	25 @ $5 =	$ 125
Totals	18,071	$69,010
Raccoon Hunters	3,231 @ $5 =	$16,155

HUNTER EDUCATION PROGRAM

Training began in 1957. It became mandatory for new hunters in 1960, and for new hunters under the age of 20 years in 1968. In 1983, it became mandatory for individuals born after December 31, 1954 to complete the training course before applying for the Hunting Licence Examination.

Year	ACTIVE INSTRUCTORS at Dec. 31	STUDENTS TRAINED Yearly	To Date	HUNTING ACCIDENTS Non-Fatal	Fatal	Total
1979	1,110	35,080	525,878	46	5	51
1980	1,320	38,730	564,608	56	6	62
1981	1,406	39,625	604,233	33	3	36
1982	1,295	34,430	638,663	38	4	42
1983	1,150	30,216	668,879	20	3	23
1984	1,175	33,117	701,996	34	4	38

29 PROVINCIAL WILDLIFE AREAS

	Hectares
Aylmer Provincial Wildlife Area	150
Brighton Provincial Wildlife Area	388
Bruce Recreation Area	3,925
Camden Lake Wildlife Management Area	1,052
Copeland Forest	1,760
Darlington Provincial Park	111
Fingal Provincial Wildlife Area	293
Gananoque Provincial Wildlife Area	580
Holiday Beach Provincial Park	198
Holland Marsh Provincial Wildlife Area	573
Hoople Creek Provincial Wildlife Area	105
Hullett Provincial Wildlife Area	2,794
Long Point Provincial Wildlife Area	500
Luther Marsh Wildlife Area	5,666
Matchedash Bay Provincial Wildlife Area	225
Mountain Provincial Wildlife Area	1,457
Nonquon River Wildlife Area	1,133
Point Petre Provincial Wildlife Area	1,276
Presqu'ile Provincial Park	931
Puslinch Crown Resource Management Area	138
Rankin Wildlife Management Area	3,800
Rondeau Provincial Park	4,654
St. Edmunds Provincial Wildlife Area	6,799
Scugog Island	182
Sibbald Point Provincial Park	225
Stag Island Wildlife Management Area	17
Tiny Marsh Provincial Wildlife Area	931
Wye Marsh Provincial Wildlife Area	919

13 WILDLIFE EXTENSION
LANDOWNER AGREEMENT AREAS

	Hectare
Aylmer Ponds	43
Beverly Swamp	430
Binbrook	401
Calton Swamp	96
Christie	340
Crooks Hollow	17
Hawk Cliff	34
Lake St. Lawrence	6,070
Mud Lake	61
Orangeville Reservoir	316
Valens	223
Waterford Lakes	290
Willoughby Marsh	227

ENFORCEMENT STATISTICS 1984-85

District or Region	No. of Conservation Officers		No. of Deputy Conservation Officers	No. of Contacts by Conservation Officers	No. of F & W Warnings
	Field	Spvr.			
Algonquin	28	11	53	26,361	1,055
Central	29.5	14	76.3	54,333	3,191
Eastern	30	9	40	47,897	1,760
Southwestern	29.5	12	55.5	78,614	2,213
North Central	23	14	36	41,329	1,087
Northeastern	34.5	18	67	52,280	145
Northern	28	16	27	44,253	1,015
Northwestern	26.5	13	19	41,916	1,191
Total	229*	107*	373.8	386,983	11,657

* Total number of field and supervisor badge holders: 336

District or Region	No. of F & W Charges	No. of Other Charges	Total Amt. of F & W Charge Fines	Total Amt. of Other Charge Fines	Total Amt. of Fines
Algonquin	771	578	52,212	26,358	78,570
Central	1,095	1,624	92,240	110,402	202,642
Western	929	486	56,506	21,629	78,135
Southwestern	869	2,313	73,690	92,998	166,688
North Central	587	161	46,953	7,024	53,977
Northeastern	527	248	77,321	12,168	89,489
Northern	716	5	61,518	9,060	70,578
Northwestern	751	108	59,457	4,509	63,966
Total	6,245	5,523	519,897	284,148	804,045

Outdoor Recreation Group

PARKS AND RECREATIONAL AREAS BRANCH

Room W-3329, Main Office Telephone (416) 965-5160

Branch Director	N. R. Richards	W-3329...5160
Policy Co-ordinator	F. L. Bishop	W-3328...2745
Secretary	Ms S. D. Hellman	W-3328...5160
Operations Manager	E. E. Murphy	W-3342...1245
Operations Secretary	Mrs J. Miller	W-3340...1245
Operations Stenographer	Ms R. Coombs	W-3340...1245
Park Mgmt. Supervisor	B. van Staalduinen.	W-3343...1245
Parks Technician	B. Huis	W-3346...1245
Visitor Services Supervisor	G. Forma	W-3347...1245
Parks and Recreational Areas Technician	vacant	W-3345...1245
Research and Computer Applications Supervisor	D. Hallman	W-3344...1245
Park Mgmt. and Resource Technician	R. Speck	W-3352...1245
Mgmt. Information Specialist	D. Driscoll	W-3351...1245
Mgmt. Information Clerk	Ms D. Alexander	W-3353...1245
Planning and Development Manager	K. G. McCleary	W-3326...2745
Planning and Development Secretary	Mrs G. Shaw	W-3326...2745
Planning and Development Stenographer.	Mrs E. Mason	W-3310...2745
Planning and Development Clerk	Ms P. A. Naylor	W-3330...2745
Planning and Development Typist	Mrs R. Watkins	W-3320...2745
Senior Landscape Architect	G. Pittenger	W-3330...2745
Landscape Architect	J. Huang	W-3330...2745
Supervisor, Environmental and Design Services	S. Cowan	W-3324...2745
Environmental and Design Services Engineer	J. Kolodziej	W-3322...2745
Draftsperson	Ms M. Lehoczky	W-3330...2745
Architectural Designer	H. Miles	W-3323...2745
Electrical Designer	J. Konya	W-3320...2745
Mechanical Designer	G. Szepielewicz	W-3320...2745
Sanitary Drafter	Mrs B. Manowski	W-3320...2745
Supervisor Planning	M. Garscadden	W-3301...2745
Special Projects Officer	R. Phillips	W-3327...2745
Earth Sciences Planner	R. J. Davidson	W-3301...2745
Life Sciences Planner	T. J. Beechey	W-3301...2745

PUBLIC USE OF PROVINCIAL PARKS

Year	Interior Campers	Campers	Average Days	Camper Nights	Total Visitors
1980	76,136	1,319,762	2.4	3,195,477	*5,210,712
1981	74,199	1,321,494	2.5	3,283,299	**5,948,528
1982	80,550	1,267,974	2.6	3,287,603	6,250,777
1983	85,131	***1,354,019	2.7	****3,726,427	+7,647,287
1984	-	1,461,904	2.6	3,764,006	7,337,892

VISITOR SERVICES PROGRAM ATTENDANCE

Organized Events/Activities

Year	Parks	Guided Tours	Personal Service Evening Programs	Film Programs	School Programs	Children's Programs	Special Events	Other
1983	67	39,137	107,360	97,317	26,695	13,505	77,438	52,873
1984	67	30,886	96,711	92,725	14,566	17,723	74,684	60,154

Indoor Facilities			Outdoor Self-Use Facilities			
Indoor Displays Museums	Activity Centre	Other	Open Air Displays/ Exhibits	Inter-pretive Trails	Other Trails	Other
268,698	97,796	58,857	160,622	332,953	109,693	54,747
318,393	79,357	12,665	99,154	362,262	121,002	16,775

PUBLICATIONS

Priced	Other	Free
96,360	2,569	1,250,759
++ 7,587	5	1,160,615

TOTAL VISITOR SERVICES PROGRAM ATTENDANCE: +++1,497,691
1,397,057

GROWTH OF PROVINCIAL PARKS

Areas in hectares

Year	Camping Parks	Camping Units	Reserve Areas No.	Reserve Areas ha	Provincial Parks No.	Provincial Parks ha
1980	97	20,723	101 37	949,726 ++++18,167	131	4,257,266
1981	97	20,757	101 37	949,726 18,167	131	4,252,960
1982	97	20,393	97 37	944,337 18,167	133	4,258,632
1983	97	20,526	144	+++++790,132	138	5,476,369
1984	97	20,481	88	759,556	190	5,605,417

* Visitation calculated from permit sales only.
** Includes free day-use visitors.
*** Includes interior campers.
**** Includes interior camper nights.
\+ Total visitation calculated from permit sales + free day-use visitation + interior visitation + includes traffic count visitation for Wasaga Beach Provincial Park.
++ The Friends of Algonquin Park assumed the responsibility for priced publications.
+++ Publications not included.
++++ Any area acquired by MNR for recreational or other purposes but not intended for designation as a provincial park.
+++++ Recommended provincial parks area.

190 PROVINCIAL PARKS IN REGULATION IN 1984

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Camper Nights
NORTHWESTERN REGION				
RED LAKE				
Opasquia	473,000	-	-	-
Pakwash	631	60	1,922	3,844
Woodland Caribou	450,000	-	-	-
KENORA				
Rushing River	190	192	20,349	48,838
Sioux Narrows	129	71	6,509	12,367
FORT FRANCES				
Caliper Lake	134	92	6,627	12,592
Lake of the Woods	12,900	100	3,647	9,846
DRYDEN				
Aaron	117	98	5,232	6,802
Blue Lake	354	188	19,407	38,813
SIOUX LOOKOUT				
Ojibway	2,630	50	3,248	5,196
IGNACE				
Sandbar Lake	3,157	75	6,481	10,369
Total, 11 Parks	943,242	926	73,422	148,667

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Camper Nights
NORTH CENTRAL REGION				
ATIKOKAN				
Quetico (Dawson Trail)	475,819	133	54,898	8,804
Quetico Interior	-	-		106,482
THUNDER BAY				
Arrow Lake	40	-	-	-
Inwood	33	85	4,666	4,666
Kakabeka Falls	420	166	25,672	35,941
Middle Falls	4	25	2,035	2,239
Sibley	24,435	200	11,818	25,999
Silver Falls	3,261	-	-	-
NIPIGON				
Lake Nipigon	1,458	85	2,474	3,711
Wabakimi	155,000	-	-	-
GERALDTON				
Klotz Lake	119	30	1,044	1,357
MacLeod	74	85	3,563	11,046
TERRACE BAY				
Neys	3,445	146	12,960	18,144
Rainbow Falls	575	225	13,101	17,031
Slate Islands	6,570	-	-	-
Total, 14 Parks	671,253	1,180	132,231	235,420

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Camper Nights
NORTHERN REGION				
HEARST				
Fushimi Lake	5,294	45	3,548	12,774
Nagagamisis	8,131	165	2,759	10,760
MOOSONEE				
Polar Bear	2,408,700	-	-	-
Tidewater	980	30	1,296	1,296
KAPUSKASING				
Rene Brunelle	2,964	122	4,126	11,965
COCHRANE				
Abitibi de Troyes	11,068	-	-	-
Greenwater	5,350	104	2,989	6,874
Kesagami	55,977	-	-	-
TIMMINS				
Kettle Lakes	1,261	165	7,715	25,458
KIRKLAND LAKE				
Esker Lakes	3,237	136	3,489	10,817
Kap-Kig-Iwan	292	64	3,091	5,255
CHAPLEAU				
Five Mile Lake	456	-	-	-
Ivanhoe Lake	1,589	149	4,709	12,244
Missinaibi Lake	44,061	36	2,734	10,935
The Shoals	10,644	46	2,355	5,181
Wakami Lake	8,806	65	3,881	16,687
Total, 16 Parks	2,568,810	1,127	42,692	130,246

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Camper Nights
NORTHEASTERN REGION				
WAWA				
Lake Superior	155,659	282	30,106	32,112
Lake Superior Interior	-	-	-	10,036
Michipicoten	289	-	-	-
Michipicoten Island	36,740	-	-	-
Obatanga	9,409	132	8,469	13,551
White Lake	1,726	187	25,945	41,512
SAULT STE. MARIE				
Batchawana	169	-	-	-
Pancake Bay	490	338	27,224	46,280
BLIND RIVER				
Aubrey Falls	4,860	-	-	-
Mississagi	2,883	100	3,623	10,507
ESPANOLA				
Chutes	108	130	17,064	23,890
SUDBURY				
Fairbank	105	160	7,701	23,104
Halfway Lake	4,730	215	15,168	47,022
Killarney	48,500	122	15,652	27,714
Killarney Interior	-	-	-	14,547
Mashkinonje	940	-	-	-
Wanapitei	2,700	-	-	-
Windy Lake	118	83	5,876	17,039
TEMAGAMI				
Finlayson Point	37	114	5,224	14,104
Lady Evelyn Smoothwater	72,400	-	-	-
NORTH BAY				
Antoine	12	30	9	32
Marten River	400	216	6,214	16,778
Restoule	662	278	6,423	28,263
Samuel de Champlain	2,349	216	7,451	17,883
Total, 22 Parks	345,286	2,603	182,149	384,374

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Camper Nights
ALGONQUIN REGION				
PARRY SOUND				
Grundy Lake	2,554	520	17,837	53,510
Killbear	1,756	883	42,240	198,527
Oastler Lake	32	145	10,187	30,561
Sturgeon Bay	14	82	4,581	13,743
BRACEBRIDGE				
Arrowhead	963	389	28,895	69,349
Mikisew	131	265	13,385	30,786
BANCROFT				
Lake St. Peter	25	62	4,136	8,271
Petroglyphs	1,555	-	-	-
Silent Lake	844	167	11,804	27,150
ALGONQUIN PARK				
Algonquin	765,345	1,375	144,038	230,381
Algonquin Interior	-	-	-	172,924
PEMBROKE				
Bonnechere	113	113	5,380	19,368
Carson Lake	13	43	2,198	3,516
Driftwood	265	77	4,593	8,268
Total, 13 Parks	773,610	4,121	289,274	866,354

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Campers Nights
EASTERN REGION				
CARLETON PLACE				
Fitzroy	185	249	18,754	37,507
Murphys Point	1,240	182	10,638	26,594
Rideau River	98	185	14,477	26,059
Silver Lake	43	148	11,131	23,375
CORNWALL				
Carillon	1,417	416	17,686	40,677
South Nation	5	-	-	-
BROCKVILLE				
Charleston Lake	902	243	26,022	59,851
TWEED				
Bon Echo	6,644	530	28,324	96,302
Sharbot Lake	69	185	9,516	25,694
NAPANEE				
Ferris	198	163	3,086	5,864
Frontenac - Interior	5,130	40	-	2,592
Lake on the Mountain	104	-	-	-
North Beach	89	-	-	-
Presqu'ile	937	393	33,120	92,737
Sandbanks	1,509	411	35,368	116,713
Total, 15 Parks	18,570	3,145	208,122	553,965

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Camper Nights
CENTRAL REGION				
LINDSAY				
Balsam Lake	449	483	28,560	79,969
Darlington	209	350	29,494	58,988
Emily	83	299	18,230	52,867
Mark S. Burnham	39	-	-	-
Quackenbush	40	-	-	-
Serpent Mounds	135	113	10,644	32,996
HURONIA				
Awenda	2,917	200	15,276	39,718
Bass Lake	39	92	13,075	30,072
Devil's Glen	6	45	3,539	5,308
Earl Rowe	312	555	24,343	60,858
Mara	45	106	7,484	23,200
McRae Point	138	205	14,379	43,136
Mono Cliffs	631	-	-	-
Six Mile Lake	94	192	17,467	43,668
Springwater	47	-	-	-
Wasaga Beach	1,545	-	-	-
MAPLE				
Credit Forks	261	-	-	-
Sibbald Point	226	648	40,215	112,602
CAMBRIDGE				
Bronte Creek	640	-	-	-
NIAGARA				
Rock Point	187	126	11,570	27,769
Short Hills	661	-	-	-
Total, 21 Parks	8,704	3,414	234,276	611,151

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Camper Nights
SOUTHWESTERN REGION				
SIMCOE				
Long Point	141	270	20,188	72,675
Selkirk	73	145	5,889	20,022
Turkey Point	311	365	10,842	27,105
AYLMER				
Iroquois Beach	227	232	13,675	45,127
John E. Pearce	68	-	-	-
Port Bruce	5	-	-	-
CHATHAM				
Holiday Beach	92	46	2,164	5,410
Peche Island	153	-	-	-
Rondeau	3,254	226	18,847	56,542
Wheatley	241	210	15,884	38,121
WINGHAM				
Ipperwash	56	266	15,561	66,912
Pinery	2,533	1,080	101,487	274,015
Point Farms	308	199	17,238	44,819
OWEN SOUND				
Craigleith	66	172	18,428	38,699
Cyprus Lake	669	242	29,925	59,849
Fathom Five	9,976	-	-	-
Inverhuron	289	-	-	-
MacGregor Point	1,204	360	16,265	47,168
Pretty River Valley	808	-	-	-
Sauble Falls	20	152	13,345	37,365
Total, 20 Parks	20,494	3,965	299,738	833,829
WATERWAY PARKS				
Chapleau-Nemegosenda River	8,159	(Chapleau)	-	-
Makobe-Grays River	1,427	(Temagami/ Kirkland Lake)	-	-
Mattawa River	3,258	(North Bay)	-	-
Mississagi River	19,814	(Blind River, Espanola, Chapleau)	-	-
Winisk River	173,530	(Geraldton)	-	-
Total, 5 Parks	206,188	-	-	-

NATURE RESERVE PARKS

Agassiz Peatlands	2,315	(Fort Frances)	-	-
Albert Lake Mesa	130	(Nipigon)	-	-
Arrowhead Peninsula	815	(Thunder Bay)	-	-
Bayview Escarpment	439	(Owen Sound)	-	-
Bonheur River Kame	800	(Ignace)	-	-
Butler Lake	3,400	(Dryden)	-	-
Cabot Head	4,514	(Owen Sound)	-	-
Castle Creek	1,075	(Thunder Bay)	-	-
Cavern Lake	189	(Thunder Bay)	-	-
Craig's Pit	530	(Terrace Bay)	-	-
Cranberry Lake	2,800	(Fort Frances)	-	-
Dividing Lake	350	(Bracebridge)	-	-
Duncan Crevice Caves	161	(Owen Sound)	-	-
East Sister Island	53	(Chatham)	-	-
Edward Island	600	(Thunder Bay)	-	-
Fish Point	110	(Chatham)	-	-
Fraleigh Lake	825	(Thunder Bay)	-	-
Frederick House Lake	13	(Timmins)	-	-
Gibson River	168	(Huronia)	-	-
Gravel River	763	(Terrace Bay)	-	-
Hope Bay Forest	353	(Owen Sound)	-	-
Lighthouse Point	96	(Chatham)	-	-
Limestone Islands	450	(Parry Sound)	-	-
Lion's Head	526	(Owen Sound)	-	-
Little Cove	16	(Owen Sound)	-	-
Livingstone Point	1,800	(Nipigon)	-	-
Lola Lake	6,572	(Dryden)	-	-
Matawatchan	65	(Pembroke)	-	-
Matawin River	2,615	(Thunder Bay)	-	-
Mississagi Delta	2,395	(Blind River)	-	-
Montreal River	44	(Sault Ste. Marie)	-	-
Nagagami Lake	1,650	(Hearst)	-	-
North Driftwood River	3	(Cochrane)	-	-
O'Donnell Point	875	(Parry Sound)	-	-
Ojibway Prairie	65	(Chatham)	-	-
Ouimet Canyon	777	(Thunder Bay)	-	-
Peter's Woods	34	(Lindsay)	-	-
Porphyry Island	107	(Thunder Bay)	-	-
Potholes	247	(Wawa)	-	-
Puff Island	9	(Nipigon)	-	-
Sable Islands	1,996	(Fort Frances)	-	-
Schreiber Channel	13	(Terrace Bay)	-	-
Sedgman Lake	5,710	(Nipigon)	-	-
Sextant Rapids	4	(Cochrane)	-	-
Shallow River	2	(Cochrane)	-	-
Smokey Head/White Bluff	347	(Owen Sound)	-	-
Spruce Islands	970	(Fort Frances)	-	-
Thackeray	116	(Kirkland Lake)	-	-
Thompson Island	145	(Thunder Bay)	-	-
Timber Island	44	(Napanee)	-	-
Trillium Woods	10	(Aylmer)	-	-
Waubaushene Beaches	34	(Huronia)	-	-
West Bay	1,120	(Nipigon)	-	-
Total, 53 Parks	49,260	-	-	-

	Area in hectares	Developed Campsites	Campers	Camper Nights
Total, 190 Parks	5,605,417	20,481	1,461,904	3,764,006

* 88 RECOMMENDED PROVINCIAL PARKS - 1984

Region, District Recommended Provincial Parks	Area in Hectares
NORTHWESTERN REGION	
RED LAKE	
Pakwash Addition	2,070
Trout Lake	7,850
SIOUX LOOKOUT	
Albany River	65,360
Fawn River	4,700
Minnitaki Kames	4,340
Otoskwin - Attawapiskat River	3,400
Pipestone River North	53,250
Pipestone River South	25,720
Severn River	93,700
Windigo Point	380
FORT FRANCES	
Sandpoint Island	890
IGNACE	
Brightsands River	22,800
White Otter L. Turtle R.	21,400
DRYDEN	
Gold Rock	710
Winnange Lake	4,745
Total, 15 Parks	311,315

Region, District Recommended Provincial Parks	Area in Hectares
NORTH CENTRAL REGION	
NIPIGON	
Kabitotikwia River	1,965
Kama Hill	1
Pantagruel Creek	2,200
Shesheeb Bay	275
Windigo Bay	8,300
THUNDER BAY	
Brightsands River	5,036
Devon Road Mesa	60
Divide Ridge	235
Kaiashk	230
Kashabowie	2,055
Kopka River	11,000
La Verendrye River	4,390
Le Pate	250
Little Greenwater Lake	244
Middle Falls Extension	970
TERRACE BAY	
Prairie River Mouth	290
Red Sucker Point	360
Steel River	9,570
GERALDTON	
Albany River	62,723
Little Current River	9,830
Otoskwin-Attawapiskat River	69,542
White Otter Lake Turtle River	20,000
Total, 22 Parks	209,526

Region, District Recommended Provincial Parks	Area in Hectares
NORTHERN REGION	
KIRKLAND LAKE	
Pushkin Hills	5
Larder River	3,630
COCHRANE	
Coral Rapids	12
Little Abitibi River	20,000
Williams Island	8
CHAPLEAU	
Biscotasing	1,150
Missinaibi	99,000
Nemegosenda Lake	4
TIMMINS	
Dana - Jowsey	2,550
GOGAMA	
La Motte Lake	510
KAPUSKASING	
Adam Creek	50
Total, 11 Parks	126,919

Region, District Recommended Provincial Parks	Area in Hectares
NORTHEASTERN REGION	
BLIND RIVER	
Mississagi Extension	1,840
SUDBURY	
French River	43,800
Sturgeon River	3,350
NORTH BAY	
Great Manitou Island	80
Restoule Extension	470
Samuel de Champlain Extension	200
South Bay	1,525
ESPANOLA	
La Cloche	7,456
Misery Bay	697
TEMAGAMI	
W. J. B. Greenwood	430
Total, 10 Parks	59,848

Region, District Recommended Provincial Parks	Area in Hectares
ALGONQUIN REGION	
PARRY SOUND	
Blackstone Harbour	12,080
Round Lake	2,585
BRACEBRIDGE	
J. Albert Bauer	163
Bigwind Lake	1,880
Chetwynd	520
Hardy Lake	1,590
Oxtongue River - Ragged Falls	650
BANCROFT	
Egan Chutes	320
Kawartha Highlands	1,880
Lowrie Lakes	230
Opeongo River	955
Upper Madawaska River	750
PEMBROKE	
Bell Bay	1,630
Bonnechere River	570
Centennial Lake	3,830
Foy Property	120
Lower Madawaska River	1,300
MacKenzie Lake Addition	1,530
Ottawa River	450
Westmeath	610
MINDEN	
MacRae Addition	6,150
Total, 21 Parks	39,793

District, Region Recommended Provincial Parks	Area in Hectares
EASTERN REGION	
BROCKVILLE	
James Auld	3,810
TWEED	
Stoco Fen	40
Total, 2 Parks	3,850
CENTRAL REGION	
LINDSAY	
Indian Point	860
Wolf Island	220
HURONIA	
Boyne Valley	434
Lavender Falls	390
Scott's Falls	410
MAPLE	
Duclos Point	111
NIAGARA	
James N. Allan	280
Total, 7 Parks	2,705

Region, District Recommended Provincial Parks	Area in Hectares
SOUTHWESTERN REGION	
AYLMER	
Komoka	500
OWEN SOUND	
Black Creek	770
Ira Lake	30
Johnston Harbour/Pine Tree Point	4,300
Total, 4 Parks	5,600
TOTAL, 88 Recommended Provincial Parks	759,556

* Recommended parks will be phased into the Provincial Parks system in the near future.

Outdoor Recreation Group

FISHERIES BRANCH
Room W-2347, Main Office Telephone (416) 965-7885

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Secretary	J. Mills	W-2348.....7885
Policy Development Co-ordinator	J. T. Allin	W-2312.....7887
Client Services Section	C. A. Haxell, Mgr	W-2349.....7885
Secretary	F. Heffernan	W-2348.....7885
Information Co-ordinator	A. A. Wainio	W-2353.....7885
Data Systems Information Biologist	W. G. Simpson	W-2446.....7885
Economist	N. Bedi	W-2344.....7885
Commercial Development Co-ord	J. C. Tilt	W-2455.....7885
Fish Culture Section	J. M. Byrne, Spvr	W-2448.....7886
Secretary	L. Lavallee	W-2448.....7886
Production Biologist	J. D. Hynes	W-2449.....7886
Fish Health Biologist	K. K. Loftus	W-2453.....7886
Fish Nutrition Specialist	C. Y. Cho	(519) 824-4120 2212
Fish Assessment Biologist	A. J. Sippel	W-2450.....7886
Fish Culture Operation Co-ord	C. C. Mack	W-2447.....7886
Information Systems Specialist	D. N. Farquhar	W-2454.....7886
Engineer	H. K. Yoshida	W-2452.....7886
Environmental Dynamics Section	D. P. Dodge, Spvr	W-2312.....7887
Secretary	B. Fernandez	W-2312.....7887
Habitat Enhancement Biologist	R. M. Biette	W-2312.....7887
Aquatic Habitat Inventory Biologist	G. A. Goodchild	W-2312.....7887
Inventory Data Systems & Lab Specialist	G. E. Gale	W-2312.....7887
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Fisheries Research Section	J. A MacLean, Supvr	Ext. 251
Secretary	M. Hirst	251
Age/Growth Studies & Environmental Stress	J. Casselman	251
Brook Trout Studies	J. H. Fraser	251
Community Dynamics	D. O. Evans	251
Stock Assessment & Genetics	P. Ihssen	251
Systems Ecology	B. Shuter	251

RESEARCH STATIONS

Fisheries Research Section.....	R. A. Ryder.....	(807) 683-6232
Box 5000, Thunder Bay, Ont	P. J. Colby.....	475-1635
P7C 5G6		
Sault Ste. Marie Research Stn....	W. H. Kwain.....	(705) 942-1411
875 Queen St. E.,		
Sault Ste. Marie, Ont. P6A 2B3		
South Baymouth Fisheries Lab.....	B. Henderson.....	(705) 859-3137
R.R. 1, Tehkummah, Ont. P0P 2C0	J. A. Reckahn.....	3137
Wheatley Fisheries Research Stn..	S. J. Nepszy.....	(519) 825-4171
R.R. 2, Wheatley, Ont. N0P 2P0	J. H. Leach.....	4171
Glenora Fisheries Research Stn...	W. J. Christie.....	(613) 476-2400
R.R. 4, Picton, Ont. K0K 2T0	D. A. Hurley.....	2400
Harkness Lab (Algonquin Park)....	.....	(705) 637-2103
Box 110, Whitney, Ont. K0J 2M0		

FISH PLANTINGS

Numbers in 000s of Fish (F) and Eggs (E)
Stocked from Ontario Fish Culture Stations

Species	E/F	1980	1981	1982	1983	1984
Coho Salmon	F	418	224	144	181	216
Chinook Salmon	F	18	12	270	222	685
Rainbow Trout	F	1,347	395	369	318	266
Brown Trout	F	-	-	71	134	165
Brook Trout	E	-	860	-	302	-
	F	1,260	1,459	824	1,757	1,127
Lake Trout	E	5	-	-	25	80
	F	1,928	2,636	2,517	1,874	2,959
Lake Trout Backcross	F	-	-	-	856	1,071
Splake	E	76	-	-	180	-
	F	798	684	927	104	205
Aurora Trout	F	17	30	-	21	10
Whitefish	F	-	-	13	15	15
Muskellunge	F	1,120	791	1,146	902	1,290
Smallmouth Bass	F	65	160	-	-	136
Walleye	E	-	-	-	-	300
	F	472	29	31	156	354
Total		7,523	7,250	6,312	7,047	8,879

COMMERCIAL FISHING LICENCES

Year	Food-Fish Harvesting	Bait-Fish Harvesting	Bait-Fish Dealers	Bait-Fish Preservers	Total
1980	1,029	1,728	1,858	124	4,739
1981	1,047	1,712	1,861	142	4,762
1982	1,068	1,694	1,847	134	4,743
1983	961	1,782	1,961	148	4,852
1984	931	1,802	1,965	141	4,839

ANGLING LICENCES

Year	Number Sold to Non-Residents
1980	628,988
1981	673,334
1982	661,934
1983	627,508
1984	550,992

FISH STOCKING from Ontario Provincial Fish Culture Stations

For the fiscal year ending March 31, 1984 (E-Eggs)

Station	Species	Quantity	Weight (kg)
Codrington	Brown Trout	165,047	5,991
Chatsworth	Lake Trout	168,600	5,224
	Lake Trout Backcross	684,416	31,995
	Splake	1,131	590
	Whitefish	15,396	430
Deer Lake	Brook Trout	27,100	126
	Lake Trout	165,188	1,925
	Muskellunge	1,290,435	138
Dorion	Brook Trout	357,524	5,131
	Lake Trout	948,360	21,964
Hill's Lake	Brook Trout	77,668	1,629
	Lake Trout	177,515	4,443
Normandale	Rainbow Trout	166,551	1,640
North Bay	Brook Trout	120,908	1,822
	Lake Trout	96,416	2,686
	Splake	175,245	3,201
	Aurora Trout	9,636	2
Pembroke	Brook Trout	146,000	1,936
	Lake Trout	165,000	2,632
Ringwood	Coho Salmon	216,115	5,333
	Chinook Salmon	684,570	1,307
Sandfield	Brook Trout	70,200	458
	Lake Trout	59,388	916
		80,250 E	-
	Lake Trout Backcross	314,070	7,781
	Splake	240	255
	Smallmouth Bass	135,926	467
	Walleye	44,605	57
Skeleton Lake	Lake Trout Backcross	72,540	1,472
	Brook Trout	103,050	964
	Lake Trout	95,300	955
	Walleye	82,275	73
Tarentorus	Rainbow Trout	59,511	2,145
	Brook Trout	149,904	2,003
	Lake Trout	547,289	7,714
White Lake	Rainbow Trout	39,600	1,051
	Brook Trout	47,150	759
	Lake Trout	384,980	4,529
	Splake	28,180	700
	Walleye	134,058	210
		300,000 E	
Westport	Walleye	93,543	98
	Brook Trout	27,280	341
	Lake Trout	150,567	2,336

EMPLOYMENT AND INVESTMENT IN COMMERCIAL FISHERY - 1984

Classification		Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron
Men employed	No.	285	714	22	74
FISHING BOATS					
12.2 m and over	No.	3	158	-	15
	tonnes	40	4,721	-	238
	Value $	85,000	23,866,011	-	1,478,944
6.1 m to 11.9 m	No.	77	28	8	2
	Value $	972,800	708,165	72,000	75,000
Under 6.1 m	No.	189	56	11	5
	Value $	371,620	89,795	20,050	5,194
FISHING GEAR					
Gill Nets	Metres	1,104,800	9,987,193	-	432,200
	Value $	775,587	7,168,985	-	514,767
Pound Nets	No.	-	43	180	-
	Value $	-	80,300	156,000	-
Trap Nets	No.	112	284	140	118
	Value $	84,600	1,216,000	31,500	230,941
Hoop Nets	No.	1,019	167	30	3
	Value $	585,350	73,200	15,000	3,000
Seine Nets	Metres	2,396	4,033	4,379	-
	Value $	19,600	55,000	17,300	-
Night Lines	No.	43,564	20,820	7,400	-
	Value $	32,151	11,800	6,200	-
Dip Nets	No.	10	13	-	-
	Value $	282	470	-	-
Trawl Nets	No.	-	336	-	-
	Value $	-	776,085	-	-
Trammel Nets	Metres	-	20	-	-
	Value $	-	13,800	-	-
SHORE INSTALLATIONS					
Freezers & Icehouses	No.	33	30	7	10
	Value $	183,075	1,117,700	49,400	133,500
Piers & Wharves	No.	32	42	8	5
	Value $	178,510	123,544	31,200	25,700
Net Sheds	No.	93	125	13	10
	Value $	414,054	2,281,750	181,000	291,200
Miscellaneous	Value $	637,850	56,500	-	-
NEW CAPITAL INVESTMENT					
Engines	Value $	78,315	207,912	2,300	32,200
Hulls	Value $	85,420	1,098,524	-	81,145
Fishing Gear	Value $	163,016	1,293,363	2,580	47,641
Wheelhouse Equip	Value $	10,850	186,419	-	22,889
Other Equipment	Value $	6,170	-	-	-
TOTAL NEW CAPITAL INVESTMENT		343,771	2,786,218	4,880	183,875
TOTAL INVESTMENT		4,110,185	40,374,473	584,530	2,942,121

EMPLOYMENT AND INVESTMENT IN COMMERCIAL FISHERY - 1983

Classification		Georgian Bay	North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total
Men Employed		38	32	21	382	20	1,588
FISHING BOATS							
12.2 m & over	No.	9	6	9	8	-	208
	tonnes	127	60	103	55	-	5,344
	Value$	477,684	290,000	500,000	321,000	-	27,018,639
6.1m to 11.9m	No.	14	4	4	43	3	183
	Value$	157,700	13,500	33,100	315,166	12,000	2,359,431
Under 6.1m	No.	22	10	11	209	12	525
	Value$	56,900	9,450	28,808	366,326	17,100	965,243
FISHING GEAR							
Gill Nets							
	Meters	316,530	195,000	117,000	509,810	13,000	12,675,533
	Value$	294,600	85,930	92,900	332,922	10,850	9,276,541
Pound Nets							
	No.	3	-	2	24	-	252
	Value$	4,500	-	6,000	192	-	246,992
Trap Nets							
	No.	4	4	1	79	4	746
	Value$	5,000	2,000	2,000	103,510	4,600	1,680,151
Hoop Nets							
	No.	1	7	1	53	128	1,409
	Value$	800	1,000	1,500	15,900	35,950	731,700
Seine Nets							
	Metres	-	-	-	-	201	11,009
	Value$	-	-	-	-	1,100	93,000
Night Lines							
	No.	-	-	-	-	1,600	73,384
	Value$	-	-	-	-	505	50,656
Dip Nets							
	No.	-	-	4	22	-	49
	Value$	-	-	80	1,045	-	1,877
Trawl Nets							
	No.	-	-	5	-	-	341
	Value$	-	-	10,000	-	-	786,085
Trammel Nets							
	Metres	-	-	-	-	67	87
	Value$	-	-	-	-	600	14,400

		Georgian Bay	North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total
SHORE INSTALLATIONS							
Freezers & Icehouses	No.	15	8	5	109	13	230
	Value $	67,000	74,500	33,500	561,719	3,563	2,223,957
Piers & Wharves	No.	7	4	9	80	4	191
	Value $	42,400	4,883	21,300	169,570	2,300	599,407
Net Sheds	No.	10	10	8	69	10	348
	Value $	87,600	56,576	24,000	149,989	18,060	3,504,229
Misc.	Value$	-	-	-	80,000	-	149,435
NEW CAPITAL INVESTMENT							
Engines	Value $	2,826	400	6,658	58,893	3,850	393,354
Hulls	Value $	-	-	6,650	26,945	-	1,298,684
Fishing Gear	Value $	26,983	32,323	18,231	82,302	3,373	1,669,812
Wheelhouse Equip.	Value $	10,136	4,881	6,500	12,913	-	254,588
Other Equipment	Value $	-	-	650	-	-	6,820
TOTAL NEW CAPITAL INVESTMENTS		39,945	37,604	38,689	181,053	7,223	1,231,371

TOTAL INVESTMENT	
Georgian Bay	1,234,129
North Channel	575,443
Lake Superior	791,877
Northern Inland Waters	2,598,392
Southern Inland Waters	113,851
TOTAL	53,325,001

COMMERCIAL FISH INDUSTRY

Commercial Fish Harvest - January to December 1984

shown in kilograms and dollar value

Species	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Georgian Bay
Bowfin	55	11,008	6,243	-	-
Bullhead	187,817	22,173	521	15	162
Burbot (ling)	-	494	-	11,967	3,592
Carp	36,924	40,861	27,925	12,446	1,218
Catfish	9,151	27,623	27,006	28,286	671
Chub (Deepwater Cisco)	-	-	-	454,456	179,055
Crappie	13,457	9,375	128	-	-
Eel	112,534	540	7	-	-
Lake Herring	1,987	-	-	1,861	11,449
Lake Trout	861	327	-	26,213	4
Lake Whitefish	32,984	5,372	-	895,579	59,171
Freshwater Drum	826	231,899	2,409	25,383	302
Northern Pike	1,228	6,487	1,221	154	1,437
Pacific Salmon	-	-	-	2,193	28
Rock Bass	8,208	12,051	1,102	1,739	453
Round Whitefish	-	4	-	5,511	8,387
Sauger	-	-	-	5	96
Shad	-	4,253	-	805	-
Smelt	15,028	7,468,616	-	301	788
Splake	-	-	-	-	8,095
Sturgeon	63	35	32	1,295	-
Sucker	30,785	7,842	6,125	24,921	12,188
Sunfish	60,330	30,823	6	2	-
White Bass	8,218	1,990,293	2,898	7,991	-
White Perch	30,152	320,303	198	154	-
Yellow Perch	381,009	4,092,461	2,123	211,563	31,971
Yellow Pickerel	556	1,864,574	69	128,669	4,909
Animal Food	28,926	296,608	-	58,662	465
Total Landings (kg)	961,099	16,444,022	78,013	1,900,171	324,441
Total Value ($)	1,698,354	25,805,072	53,627	3,932,321	493,143

COMMERCIAL FISH INDUSTRY

Commercial Fish Harvest - January to December 1984

shown in kilograms and dollar value

Species	North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total Landings (kg)	Total Value ($)
Bowfin	-	-	-	-	17,306	6,566
Bullhead	-	-	53	3,757	214,498	197,171
Burbot (ling)	1,064	-	21,407	431	38,955	3,931
Carp	593	-	-	11,538	131,505	30,015
Catfish	140	-	18	3,606	96,501	98,555
Chub (Deepwater Cisco)	16	63,429	48,412	-	745,368	1,380,800
Crappie	4	-	7,163	1,141	31,268	80,751
Eel	-	-	-	800	113,881	225,724
Lake Herring	2,459	896,716	11	-	914,483	445,492
Lake Trout	437	145,577	19,159	-	192,578	386,307
Lake Whitefish	174,432	179,148	546,446	-	1,893,132	2,885,921
Freshwater Drum	-	-	-	-	260,819	50,440
Northern Pike	7,986	-	92,910	-	111,423	86,472
Pacific Salmon	315	-	-	-	2,536	4,998
Rock Bass	499	-	3	835	24,890	26,612
Round Whitefish	1,978	18,405	22	-	34,307	18,498
Sauger	-	-	14,799	-	14,900	27,075
Shad	-	-	-	-	5,058	318
Smelt	220	-	-	-	7,484,953	1,599,925
Splake	1,139	-	-	-	9,234	18,433
Sturgeon	-	-	6,515	-	7,940	37,316
Sucker	18,231	70,607	101,419	459	272,577	52,194
Sunfish	131	-	-	13,420	104,712	109,687
White Bass	-	-	-	93	2,009,493	1,878,271
White Perch	-	-	-	-	350,807	338,374
Yellow Perch	54,220	37,694	644	2,501	4,814,186	18,306,748
Yellow Pickerel	10,574	621	270,364	-	2,280,336	6,796,911
Animal Food	59,063	23,037	16,881	5,591	489,233	12,100

TOTAL LANDINGS (kg)		TOTAL VALUE ($)
North Channel	333,501	609,151.00
Lake Superior	1,435,234	1,124,474.78
Northern Inland Waters	1,146,226	1,336,872.84
Southern Inland Waters	44,172	52,591.26
Total Landings	22,666,879	-
Total Value	-	35,105,606.46

ONTARIO COMMERCIAL FISH HARVEST

by species in 000s kg and $000s

Species	1980	1981	1982	1983	1984	1984 Value
Bowfin	9	20	13	45	18	7
Bullhead	241	234	204	221	215	197
Burbot (ling)	108	182	81	72	39	4
Carp	121	208	158	181	132	30
Catfish	85	117	96	111	97	99
Chub (Deepwater Cisco)	446	394	308	520	746	1,381
Pacific Salmon	17	38	27	69	3	5
Eel	168	112	32	69	114	226
Freshwater Drum	179	257	230	188	261	51
Goldeye	-	-	-	-	-	-
Lake Herring (Cisco)	1,464	1,456	1,122	589	915	446
Lake Trout	278	227	258	262	193	387
Lake Whitefish	1,681	1,748	1,765	2,226	1,894	2,886
Northern Pike	267	296	321	278	112	87
Rock Bass & Crappie	75	64	58	78	57	108
Round Whitefish	75	57	35	27	35	19
Sauger	17	20	28	20	15	28
Smelt	11,336	13,944	19,611	13,316	7,585	1,600
Splake	39	57	40	29	9	19
Sturgeon	21	20	20	22	8	38
Sucker (Mullet)	563	606	626	484	273	52
Sunfish	118	126	130	111	105	110
White Bass	904	896	1,579	2,076	2,010	1,878
White Perch	57	47	39	74	351	339
Yellow Perch	6,236	4,784	4,962	3,473	4,814	18,307
Yellow Pickerel	1,343	1,476	1,368	1,841	2,281	6,797
Animal Food	637	772	688	828	490	12
Total Landings	26,485	28,158	33,799	27,210	22,672	
Total Landed Value	$23,644	$31,767	$36,788	$27,837		$35,113

ONTARIO COMMERCIAL FISH HARVEST

by waters in 000s kg. and $000s

Year	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Georgian Bay
1980	891	19,490	37	1,083	361
1981	1,163	20,334	93	1,461	346
1982	939	26,989	153	1,324	269
1983	1,025	20,363	122	2,126	270
1984	961	16,444	78	1,900	325

Year	North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total	Total $
1980	158	2,151	2,080	234	26,485	23,644
1981	314	2,060	2,154	233	28,158	31,767
1982	322	1,515	2,091	197	33,799	36,788
1983	381	1,079	1,691	153	27,210	27,837
1984	334	1,435	1,146	44	22,667	35,106

LAKE ONTARIO COMMERCIAL FISH HARVEST

by species in 000s kg. and $000s

Year	Bullhead and Catfish	Carp	Eel	Lake Herring	Smelt	Sunfish
1980	176	-	164	5	22	72
1981	154	73	109	2	34	60
1982	120	13	29	2	37	69
1983	141	43	67	3	44	58
1984	197	37	113	2	15	61

Year	White Perch	Yellow Perch	Other Species	Total	Total $
1980	55	265	132	891	1,147
1981	48	563	120	1,163	1,930
1982	34	539	96	939	1,905
1983	29	580	60	1,025	1,880
1984	30	381	125	961	1,698

LAKE ERIE COMMERCIAL FISH HARVEST

by species in 000s kg. and $000s

Year	Bullhead and Catfish	Carp	Freshwater Drum	Smelt	White Bass
1980	56	10	151	11,296	888
1981	76	15	212	13,790	881
1982	54	19	190	19,556	1,556
1983	70	89	145	13,270	2,060
1984	50	41	232	7,469	1,991

Year	Yellow Perch	Yellow Pickerel	Other Species	Total	Total $
1980	5,674	800	615	19,490	14,024
1981	3,795	956	609	20,334	20,261
1982	4,134	909	571	26,989	26,183
1983	2,539	1,400	790	20,363	17,748
1984	4,093	1,865	703	16,444	25,805

LAKE ST. CLAIR COMMERCIAL FISH HARVEST

by species in 000s kg. and $000s

Year	Bullhead and Catfish	Carp	Freshwater Drum	Northern Pike	Rock Bass & Crappie
1980	7	14	5	1	1
1981	22	34	11	1	1
1982	30	74	17	1	2
1983	26	19	16	2	3
1984	28	28	3	2	2

Year	Sucker	White Bass	Yellow Perch	Other Species	Total	Total $
1980	5	2	-	2	37	23
1981	11	5	1	7	93	53
1982	15	8	1	5	153	77
1983	26	6	5	9	122	76
1984	6	3	2	4	78	78

LAKE HURON COMMERCIAL FISH HARVEST

by species in 000s kg. and $000s

Year	Carp	Chub	Lake Herring	Lake Whitefish	Round Whitefish
1980	15	101	3	524	6
1981	14	219	3	594	4
1982	13	194	4	702	4
1983	12	252	11	1,300	4
1984	13	455	2	896	6

Year	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total $
1980	18	201	124	91	1,083	2,369
1981	49	246	124	208	1,461	3,255
1982	63	135	117	92	1,324	2,833
1983	30	227	129	161	2,126	4,231
1984	25	212	129	162	1,900	3,933

GEORGIAN BAY COMMERCIAL FISH HARVEST

by species 000s kg. and $000s

Year	Carp	Chub	Lake Herring	Lake Whitefish	Round Whitefish
1980	7	77	20	88	15
1981	2	57	12	105	8
1982	2	57	12	77	9
1983	1	124	10	37	6
1984	2	179	12	60	9

Year	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total $
1980	41	36	11	66	361	505
1981	28	49	11	74	346	669
1982	20	39	9	44	269	504
1983	22	29	7	34	270	478
1984	12	32	5	14	325	493

NORTH CHANNEL COMMERCIAL FISH HARVEST

by species in 000s kg. and $000s

Year	Smelt	Lake Whitefish	Northern Pike	Round Whitefish	Sturgeon
1980	-	73	6	1	4
1981	-	120	13	2	3
1982	-	171	9	1	2
1983	-	200	7	3	2
1984	-	175	8	2	-

Year	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total $
1980	34	7	13	20	158	279
1981	26	52	20	78	314	526
1982	27	39	20	53	322	618
1983	17	38	10	104	381	554
1984	19	55	11	64	334	609

LAKE SUPERIOR COMMERCIAL FISH HARVEST

by species in 000s kg. and $000s

Year	Chub	Lake Herring	Lake Trout	Lake Whitefish	Smelt
1980	240	1,282	212	225	17
1981	91	1,327	176	173	42
1982	18	901	189	164	17
1983	31	563	185	133	-
1984	64	897	146	179	-

Year	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total $
1980	77	38	-	60	2,151	2,606
1981	110	61	-	80	2,060	2,246
1982	124	61	1	40	1,515	2,063
1983	105	40	-	22	1,079	1,297
1984	71	38	-	40	1,436	1,124

NORTHERN INLAND WATERS COMMERCIAL FISH HARVEST

by species in 000s kg. and $000s

Year	Burbot	Chub	Lake Herring	Lake Trout	Lake Whitefish
1980	91	27	154	32	765
1981	169	26	106	18	745
1982	70	40	200	48	629
1983	58	112	-	18	539
1984	39	48	-	19	547

Year	Northern Pike	Sucker (Mullet)	Yellow Pickerel	Other Species	Total	Total $
1980	226	337	337	111	2,080	2,533
1981	246	358	363	123	2,154	2,641
1982	275	341	311	177	2,091	2,426
1983	248	259	292	165	1,691	1,421
1984	93	102	271	46	1,147	1,337

SOUTHERN INLAND WATERS COMMERCIAL FISH HARVEST

by species in 000s kg. and $000s

Year	Bullhead & Catfish	Carp	Lake Whitefish	Rock Bass & Crappie	Sucker (Mullet)
1980	57	71	-	4	15
1981	63	69	-	8	4
1982	63	34	-	11	19
1983	54	16	-	8	1
1984	8	12	-	3	1

Year	Sunfish	White Perch	Yellow Perch	Other Species	Total	Total $
1980	29	2	11	45	234	157
1981	34	3	15	37	233	186
1982	34	1	10	25	197	181
1983	26	5	12	31	153	152
1984	14	-	3	3	44	53

EMPLOYMENT AND INVESTMENT IN ONTARIO COMMERCIAL FISHERY

Year	Employees	40' & Over	Under 40'	Gill M 000s	Pound Nets	Trap Nets	Hoop Nets
1980	1964	213	837	12,068	172	556	1630
1981	2043	237	885	12,616	160	689	1430
1982	2106	238	980	12,735	269	732	1504
1983	1981	251	770	12,579	207	776	1648
1984	1588	208	708	12,676	252	746	1409

Year	Seine M 00s	Freezers & Ice Houses	Wharves and Piers	Net Sheds	New Invest. $000s	Total Value $000s
1980	75	317	250	457	3,714	41,481
1981	77	291	275	476	5,447	54,676
1982	78	322	277	482	3,655	57,345
1983	89	277	243	444	3,327	58,775
1984	110	230	191	348	12,314	533,250

LANDS AND WATERS GROUP

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Executive Co-ordinator.....	H. A. Clarke.....	W-6626.....6046
Administrative Assistant.....	Ms. H. Cobden.....	W-6623.....1075
Res. Economist.....	Dr. P. L. M. Warwick....	W-6625.....5067

LAND MANAGEMENT BRANCH

Room W-6643, Main Office Telephone (416) 965-1316

Branch Director.....	S. E. Yundt.....	W-6643.....1498
Secretary.....	Mrs. B. Bourne.....	W-6643.....1316
Admin. Asst.....	Mrs. B. Luksis.....	W-6643.....1316
Training Co-ordinator.....	C. Turnpenney.....	W-6644.....1607
Public Lands Section.....	J. Morton, Spvr.....	W-6603.....2741
Public Lands Management.....	L. Fleguel.....	W-6621.....4507
Water Power.....	W. P. Small.....	W-6621.....2743
Land Appraisals and Property Management Officer.....	J. Cameron, (acting)....	W-6629.....2742
Land Management Planning.....	N. C. Gordon.....	W-6604.....2742
Land Acquisition Officer.....	A. D'Angelo.....	W-6629.....2743
Mining Lands Section.....	J. C. Smith, Spvr.....	W-6602.....1380
Mining Lands Administrator.....	T. Soobrian.....	W-6610.....4888
Mining Lands Administrator.....	R. Pichette.....	W-6610.....4888
Titles Section.....	J. Hogan, Spvr.(acting).	W-6645.....1319
Document Officer.....	C. D. Egerton.....	W-6645.....1319
Acreage Tax Administrator.....	Mrs. D. Holland.....	W-6645.....1319
Records Officer.....	R. E. Dixon.....	W-6645.....1319
Land Records Manager.....	V. Prasad.....	W-6645.....1319
Resource Access Section.....	P. Brook, Spvr.....	W-6646.....5735

PUBLIC LANDS in years ending March 31

Year	Patents		Leases		Licences of Occupation	
	No.	ha	No.	ha	No.	ha
1980	578	1,216	201	198	135	3,407
1981	890	1,093	162	276	100	3,066
1982	690	2,385	211	448	113	845
1983	1,093	1,517	114	208	96	472
1984	1,324	8,674	110	365	90	106
1985	1,591	1,788	100	189	101	92

LANDS ACQUIRED BY CROWN in years ending March 31

Year	Provincial Tax Forfeitures	Cancellation of Sales	Purchased or Otherwise Acquired	Forfeitures
	ha	ha	ha	ha
1980	0.4	-	2,480	15,783
1981	1.20	0.16	703	3,600
1982	492	-	722	6,275
1983	661	-	1,402	4,047
1984	482	1	520	2,832
1985	757	-	711	4,047

USE OF ACQUIRED LANDS areas in hectares, years ending March 31

Year	Provincial Parks ha	Lands General ha	Sport Fisheries ha	Wildlife Mgmt. ha	Timber Mgmt. ha	Total ha	Interim Property Mgmt.
1975	4,815	87	0.80	384	-	5,286	-
1976	2,143	12	6	163	-	2,325	-
1977	630	140	81	248	2	1,101	35,424
1978	548	4.04	-	111	4,332	4,995	36,095
1979	2,028	79	-	-	3	2,110	34,715
1980	2,350	109	16	-	5	2,480	35,008
1981	549	-	51	3	100	703	34,692
1982	588	32	47	24	31	722	26,633
1983	261	56	146	213	726	1,402	25,113
1984	420	2	-	-	98	520	20,280
1985	504	79	4	101	23	711	13,687

MINING LANDS in years ending March 31

Year	Patents		Renewals		Leases New	
	No.	ha	No.	ha	No.	ha
1980	-	-	185	5,327	94	11,185
1981	-	-	141	2,302	60	7,704
1982	-	-	77	1,226	68	6,446
1983	-	-	85	1,937	80	9,230
1984	-	-	71	779	287	10,999
1985	-	-	164	2,992	74	9,103

Year	Surface Rights		Licences of Occupation		Quit Claim Deeds and Regrants	
	No.	ha	No.	ha	No.	ha
1980	2	90	1	16	297	7,538
1981	-	-	5	147,191	38	624
1982	-	-	3	366,705	49	1,157
1983	-	-	1	864	45	1,196
1984	1	372	3	3,012	77	952
1985	-	-	12	241,508	40	1,240

PROSPECTING ACTIVITIES

in years ending March 31

Year	Mining Claims		In Good Standing	Assessment Work (Days)	Quarry Permits Issued	Prospector's Licences	
	Recorded	Cancelled				Issued	Renewed
1980	16,875	10,952	36,092	437,619	1,301	1,347	1,854
1981	36,535	11,279	72,809	972,469	1,188	2,130	2,660
1982	26,075	17,709	76,125	1,565,197	1,520	1,871	2,796
1983	55,942	24,395	113,167	1,516,226	1,449	2,040	3,190
1984	57,774	20,958	144,812	3,461,208	1,567	2,400	3,343
1985	35,825	45,156	134,913	3,094,693	1,391	1,958	3,344

1984/85 MNR ROADS PROGRAM

REGION	kms Con./Recon.	Bridges Con./Recon	Expenditures ($000s)	kms Maintained	Expenditure ($000s)
NORTHERN ONTARIO					
Northwestern	12.1	-	$ 536.3	553.6	$397.3
North Central	34.5	3	1,086.4	1,525.5	450.5
Northern	55.8	-	768.2	1,076.8	569.3
Northeastern	22.2	5	470.3	1,520.0	428.6
Subtotals	124.6	8	$2,861.2	4,675.9	$1,845.7
SOUTHERN ONTARIO					
Algonquin	-	-	$ -	815.5	$286.8
Eastern	12.9	-	75.2	483.9	159.9
Central	-	-	-	111.2	62.5
Southwestern	-	-	-	160.0	33.4
Subtotals	12.9	-	$ 75.2	1,570.6	$ 542.6
PROVINCIAL TOTALS	137.5	8	$2,936.4	6,246.5	$2,388.3

Program includes: Forest Access, Agreement Forest, Ministry Service, Fuelwood Access, Public Transport, Private Forest Road Maintenance Agreements and Recreational Access Roads.

1984/85 NORTHERN ONTARIO RESOURCES
TRANSPORTATION COMMITTEE - DIRECT PROGRAM (MNR portion only)

REGION	kms Con./Recon.	Bridges Con./ Recon.	Expenditures ($000s)	kms Maintained	Expenditures ($000s)	kms Winter Road	Expenditures ($000s)
Northwestern	22.5	-	$1,624.8	78.0	$39.2	235.0	$314.1
North Central	-	2*	21.9	-	-	-	-
Northern	47.7	1	927.0	-	-	288.0	103.5
Northeastern	-	-	-	12.0	11.2	-	-
TOTAL	70.2	3	$2,573.7	90.0	$50.0	523.0	$417.6

* culverts replaced

1984/85 NORTHERN ONTARIO RESOURCES TRANSPORTATION
COMMITTEE - INDIRECT PROGRAM (COMPANY) - (MNR Portion Only)

REGION	kms Con./Recon	Bridges Con./Recon.	Expenditures ($000s)
Northwestern	19.9	-	$299.1
North Central	12.8	-	143.1
Northern	-	-	-
Northeastern	20.0	1	128.1
TOTAL	52.7	1	$570.3

$28.4 expenditure for Snowmobile Trails
TOTAL N.O.R.T.C. EXPENDIURE - $3,640.4

1984/85 FOREST MANAGEMENT
SUBSIDIARY AGREEMENT PROGRAM*

CROWN PROJECTS

REGION	kms Con./Recon.	Bridges Con./Recon.	Expenditures ($000s)
Northwestern	25.0	-	$2,031.1
North Central	33.8	-	4,856.5
Northern	10.0	-	425.2
Northeastern	18.0	2.0	2,199.9
Contract Staff	-	-	82.7
TOTAL	86.8	2.0	$9,803.1

COMPANY PROJECTS

REGION	kms Con./Recon.	Bridges Con./Recon.	Expenditures ($000s)
Northwestern	-	-	-
North Central	6.9	-	$281.8
Northern	33.8	-	504.1
Northeastern	-	-	-
TOTAL	40.7	-	$785.9
TOTAL PROGRAM	127.5	2.0	$10,589.0

* FMSA Program is co-funded by the federal and provincial governments.

1984/85 FOREST MANAGEMENT AGREEMENT PROGRAM*
(Partially Funded by BILD)

REGION	kms Con./Recon.	Expenditures ($000s)	kms Maintained	Expenditures ($000s)
Northwestern	247.9	$ 5,935.1	195.8	$ 82.1
North Central	219.9	5,143.0	527.6	227.5
Northern	714.6	18,066.1	896.9	435.1
Northeastern	171.0	3,942.5	156.4	58.9
TOTAL	1,353.4	$33,086.7	1,776.7	$803.6

The FMA Program is funded in accordance with agreements between MNR and forest companies.

1984/85 RESOURCE ACCESS PROGRAM SUMMARY
MNR ROAD & BRIDGE CONSTRUCTION & MAINTENANCE

Crown	MNR Roads Program	NORTC Program	FMSA Program	FMA Program	Totals
Road Con./ Recon. (kms)	137.5 8 Bridges	70.2 3 Bridges	86.8 2 Bridges	-	294.5 13 Bridges
Expenditures	$2,936.4	$2,573.7	$9,803.1	-	$15,313.2
Road Maintained (kms)	6,246.5	90.0	-	-	6,336.5
Expenditures	$2,388.3	$ 50.4	-	-	$ 2,438.7
Winter Roads Maintained (km)	-	523.0	-	-	523.0
Expenditures	-	$ 417.6	-	-	$ 417.6

ROADS & BRIDGES CONSTRUCTED & MAINTAINED
BY COMPANIES UNDER AGREEMENT

Company	NORTC Program	FMSA Program	FMA Program	Totals
Road Con./ Recon. (kms)	52.7 1 Bridge	40.7	1,353.4	1,446.8 1 Bridge
Expenditures	$570.3	$ 785.9	$33,086.7	$34,442.9
Road Maintained (kms)	-	-	1,776.7	1,776.7
Expenditures	-	-	$803.6	$803.6

Lands and Waters Group

SURVEYS AND MAPPING BRANCH

Room W-3440, Main Office Telephone (416) 965-6225

Surveyor General, Branch Director	J. H. O'Donnell.....	W-3448.....6225
Surveying Services, General Mgr..	S. B. Panting.....	W-3446.....4538
Surveys Manager.....	D. E. Norris.....	W-3449.....2714
Asst. Mgr. Examinations.....	J. E. Hietala.....	W-3444.....2714
Asst. Mgr. Technical Services..	J. A. MacIntosh.....	W-3447.....2714
Survey Research and Descriptions.....	R. F. Weatherbe.....	W-3442.....2714
Survey Records Information.....	D. E. Jeanes.....	W-3422.....1416
Geographical Referencing Mgr...	J. H. Kerr.....	W-3425.....4538
Mathematical Adjustments, Head.	Z. Jiwani.....	W-3427.....4538
Control Survey Analyst.....	K. M. Kelly.....	W-3427.....4789
LRIS Analyst and Technologist..	G. R. Zillmer.....	W-3450.....2779
Geodetic Analyst.....	C. Broughton.....	W-3423.....2198
Mapping Services, General Manager	C. T. Osborne.....	W-2540.....4941
Cartographic Services.....	F. W. Dawson.....	W-2540.....4743
Drafting Services Manager.....	D. W. Robeson.....	W-2540.....1823
Nomenclature Services Manager..	M. B. Smart.....	W-2601.....6515
Basic Mapping Manager.....	B. Jackson.....	W-2540.....1208
Chief Contract Monitor.....	R. Audas.....	W-2640.....0293

Ontario Centre for Remote Sensing
880 Bay Street, Toronto, Ont. M5S 1Z8

Associate Director.....	V. Zsilinszky.....	8411
Chief Scientist.....	S. Pala.....	8411
Senior Scientist.....	A. Jano.....	8411
Staff Scientist.....	R. Mussakowski.....	8411
Staff Scientist.....	T. Ellis.....	8411
Research Officer, Engineering..	V. Singhroy.....	8411
Airborne Program Co-ordinator..	I. Ross.....	8411
Airborne Program Specialist....	E. Senese.....	8411
Photo Research Lab Supervisor..	D. Klimes.....	8411

MAPPING SERVICES

ONTARIO BASIC MAPPING

1:20000 , 1:10000 scales

Completed.

In progress.

To be mapped.

1:2000 scale

128 Municipalities completed
18 Municipalities in progress

SURVEYING SERVICES

Area of original township surveys.

Township boundaries resurveyed / restored.

9771 kms completed.

SURVEYING SERVICES

Township Boundary Resurvey Program

Year	Km. Resurveyed
1961-62	334.34
1962-63	277.93
1963-64	276.89
1964-65	604.39
1965-66	601.94
1966-67	466.07
1967-68	419.07
1968-69	442.59
1969-70	424.87
1970-71	494.71
1971-72	529.47
1972-73	388.93
1973-74	306.95
1974-75	395.11
1975-76	277.82
1976-77	324.82
1977-78	328.31
1978-79	494.39
1979-80	525.29
1980-81	461.72
1981-82	407.57
1982-83	405.30
1983-84	307.50
1984-85	276.0
Total	9,771.40

CROWN LAND SURVEY PLAN EXAMINATIONS

Year	No. Plans Examined
1978-79	270
1979-80	317
1980-81	323
1981-82	641
1982-83	791
1983-84	831
1984-85	501

DESCRIPTIONS PREPARED

Year	No. Descriptions Prepared
1978-79	897
1979-80	903
1980-81	779
1981-82	1,052
1982-83	1,585
1983-84	2,119
1984-85	1,618

PROVINCIAL HORIZONTAL CONTROL SURVEY

Data Base COSINE

Year	Stations Loaded
1981-82	10,000
1982-83	13,000
1983-84	11,000
1984-85	3,000
Total	37,000

PRECISE CALIBRATION BASELINE INSTALLATION

Year Installed	Baseline Name
1977-78	Mississauga
1979-80	Scarborough
1980-81	Burlington
1981-82	London
1982-83	Belleville
1983-84	Lindsay & Conestoga

Lands and Waters Group

OFFICE OF INDIAN RESOURCE POLICY

Room 6527, Whitney Block Telephone (416) 965-6045

Director.....	E. G. Wilson.....	W-6527.....6045
Secretary.....	S. W. Ko (acting).....	W-6527.....6045
Indian Resource Policy Advisor...	S. J. Houston.....	W-6529.....5201
Clerk Steno.....	S. W. Ko.....	W-6528.....5201
Senior Indian Land Claims Researcher.....	D. T. McNab.....	W-6526.....5201
Indian Land Claims Researcher....	L. C. Hansen.....	W-6530.....5201
Indian Land Claims Researcher....	D. J. Bourgeois.....	W-6530.....5201
Clerk Steno.....	P. Williams.....	W-6520.....5201

Lands and Waters Group

CONSERVATION AUTHORITIES AND WATER MANAGEMENT BRANCH

Section 6, 5th Floor, Main Office Telephone (416) 965-6285

Branch Director	M. R. Garrett	W-5620.....6287
CONSERVATION AUTHORITIES SECTION		
Manager	R. D. Hunter	W-5620.....6285
Co-ordinator, Technical Systems	G. S. Sardesai	W-5620.....6275
Administrative Assistant	Mrs. D. Green	W-5620.....6270
Planning Systems Co-ordinator	T. E. Farrell	W-5620.....6286
Librarian	Ms A. Perrigo	W-5641.....4481
Supervisor, Program Implementation and Evaluation	G. W. Price	W-5620.....6285
Head, Conservation and Recreation Land Mgmt. Program	R. J. Dickie	W-5620.....1573
CA Transfer Payment Co-ordinator	Mrs. M. E. Willard	W-5620.....7694
Special Employment Co-ordinator	Mrs. S. E. Court	W-5641.....1799
TECHNICAL SERVICES SECTION		
Manager	R. B. Chang (acting)	W-5620.....6295
Flood Damage Reduction Program Co-ordinator	Mrs. C. T. Kowalyk	W-5620.....6281
Supervisor, Streamflow Forecast Centre	P. N. Gryniewski	W-5636.....6292
Head, Hyrdometeorological Unit	R. A. Fox	W-5636.....6293
Emergency Mgmt. Co-ordinator	L. J. Balogh	W-5636.....6277
Senior Policy Advisor, Water Management	R. P. Milligan	W-5620.....6281
Supervisor, Models and Consultative Services	R. M. Odell (acting)	W-5620.....1271
Head, Model Development	J. Y. Ding	W-5641.....1271
Models Specialist	S. K. So	W-5641.....1271
Water Resource Engineer	D. L. Strelchuk	W-5620.....1271

GRANTS TO CONSERVATION AUTHORITIES
UNDER THE CONSERVATION AUTHORITIES ACT

in years ending March 31

Year	Administration	Water and Related Land Mgmt	Conservation and Recreation Land Mgmt	Lake Ontario Waterfront	Total
1980	$4,756,983	$20,466,353	$3,404,736	$1,530,000	$30,158,072
1981	5,202,220	27,724,128	3,436,411	1,500,342	37,863,102
1982	5,517,581	26,496,443	2,953,315	1,469,780	36,437,119
1983	6,591,399	26,693,614	3,130,218	1,574,000	40,989,231
1984	7,098,874	26,852,944	3,751,372	-	37,703,190
1985	7,483,719	25,023,841	4,223,991	-	36,731,551

AVIATION AND FIRE MANAGEMENT CENTRE

Box 310, Sault Ste. Marie, Ontario P6A 5L8
Telephone (705) 942-1800 Telex 067-77166, 067-77134

Director	J. F. Goodman	(705) 942-1800
Co-ordinator, Management & Planning	G. E. Doan	1800
Finance and Administration Spvr.	W. A. Sinclair	1800
Purchasing Officer	E. M. Esson	1800
Fire Management Section		
Assistant Director, Fire	R. G. Elliott	1800
Provincial Fire Operations	J. G. Minor, Spvr	1800
Research & Development	R. J. Drysdale, Spvr	1800
Fire Management Education Co-ordinator	R. B. Little	1800
Assistant Director, Air	R. Kincaid	1800
Chief Pilot	A. L. Stewart	1800
Maintenance Superintendent	G. Willoughby	1800
Assistant Supt. Maintenance		
Airframe Section	G. Larocque	1800
Engine Section	P. F. Holder	1800
Quality Control Inspector	J. S. Denley	1800
Communications Supervisor	H. Kling	1800
Flight Ops. Officer Malton Airbase	W. C. Clarke	(416) 678-1172
China Project		
Canadian Project Director	G. A. Wright	(705) 942-1800

FOREST FIRE RECORD

Areas in hectares

Year	Damage $	Private Property Damage $	Area Burned Over			Number of Fires	Area per Fire
			Crown	Private	Total		
1917	-	-	-	-	155,466	1,110	140
1918	-	-	-	-	12,210	965	12
1919	-	-	-	-	373,186	1,780	210
1920	-	-	-	-	145,222	1,287	113
1921	-	-	-	-	303,326	1,269	239
1922	-	-	-	-	140,099	1,021	151
1923	-	-	-	-	857,995	1,343	639
1924	-	-	-	-	55,091	851	69
1925	-	-	-	-	76,705	1,149	67
1926	-	-	26,664	9,100	35,764	1,110	32
1927	-	-	9,216	5,248	14,464	924	16
1928	-	-	39,026	1,598	40,624	536	76
1929	-	-	246,353	6,836	253,189	1,550	163
1930	-	-	144,688	143,371	288,059	1,402	206
1931	-	-	42,843	13,120	55,963	1,851	30
1932	-	-	253,558	21,232	274,790	2,073	133
1933	-	-	131,537	10,086	141,623	1,919	74
1934	-	-	64,891	15,493	80,384	1,568	51
1935	-	-	74,090	27,309	101,439	1,309	77
1936	-	-	466,957	44,741	511,698	2,264	226
1937	-	-	81,701	9,251	90,952	1,453	63
1938	-	-	38,918	17,028	55,946	1,292	43
1939	-	-	10,558	1,218	11,776	961	12
1940	-	-	40,869	8,346	49,215	1,014	49
1941	-	-	109,991	159,751	269,742	1,265	213
1942	-	-	31,448	14,571	46,019	1,224	38
1943	-	-	13,543	7,831	21,374	624	34
1944	-	-	29,635	38,713	68,348	1,137	60
1945	-	-	7,283	12,348	19,631	966	20
1946	-	-	18,072	12,995	31,877	1,739	18
1947	-	-	15,416	18,591	34,007	1,393	24
1948	-	-	345,917	65,806	411,723	2,036	202
1949	-	-	16,427	7,880	24,307	1,834	13
1950	55,148	103,682	5,343	9,541	14,884	985	15
1951	389,447	56,389	39,118	1,854	40,972	904	45
1952	29,504	31,347	2,940	2,087	5,027	1,095	4
1953	393,874	81,778	18,016	5,782	23,508	1,520	16
1954	406,241	15,650	14,615	7,518	22,133	881	25
1955	3,591,680	184,940	150,118	10,309	160,427	2,252	71
1956	3,068,152	22,319	89,768	1,777	91,545	1,017	90

Year	Damage	Private Property Damage	Area Burned Over			Number of Fires	Area per Fire
			Crown	Private	Total		
1957	463,059	113,751	9,814	9,065	18,879	1,671	11
1958	311,503	97,036	10,337	4,496	14,833	1,558	10
1959	22,041	20,757	1,044	1,093	2,137	1,029	2
1960	438,094	56,442	11,813	888	12,701	956	13
1961	31,989,802	152,639	477,894	1,549	479,433	1,305	367
1962	74,748	99,165	3,069	2,517	5,586	1,521	4
1963	706,888	39,932	16,467	6,251	22,718	1,885	12
1964	500,296	19,792	9,090	2,291	11,381	1,829	6
1965	386,850	254,105	6,068	1,987	8,055	1,218	6
1966	71,521	49,457	3,421	2,413	5,834	1,921	3
1967	1,353,919	87,638	23,768	1,930	25,698	1,465	17
1968	4,174	54,146	1,078	2,751	3,829	1,219	3
1969	134,756	4,623	1,813	669	2,482	901	3
1970	1,323,041	28,815	-	-	23,527	1,239	18
1971	462,064	75,875	-	-	14,649	1,790	8
1972	1,081,876	47,446	-	-	32,029	1,604	20
1973	11,944	121,900	2,417	1,190	3,607	1,111	3
1974	12,063,428	239,384	522,641	1,346	523,987	1,625	323
1975	683,726	340,414	11,226	5,630	16,856	3,146	5
1976	26,839,738	930,514	536,529	7,578	544,107	3,985	136
1977	11,190,900	252,565	411,752	4,564	416,316	2,049	203
1978	165,267	139,386	7,040	483	7,523	940	8
1979	2,310,161	60,032	63,322	393	63,715	1,564	41
1980	72,094,096	3,254,443	524,893	35,847	560,740	1,779	315
1981	9,171,418	60,906	173,479	5,994	179,473	1,656	108
1982	116,695	71,068	2,555	1,337	3,892	1,396	3
1983	15,230,649	352,210	442,156	1,499	443,655	2,244	198
1984	787,487	652,985	118,851	1,567	120,418	1,240	97

1984 FOREST FIRES BY DISTRICT

District	Number of Fires	Hectares Burned Over	ha per Fire
Dryden	72	185.1	2.6
Fort Frances	47	455.1	9.7
Ignace	22	7.3	.3
Kenora	160	3,260.3	20.4
Red Lake	82	91,966.8	1,121.5
Sioux Lookout	70	6,176.0	88.2
Atikokan	44	104.3	2.4
Geraldton	24	9,973.4	415.6
Nipigon	24	8.1	.3
Terrace Bay	13	24.0	1.8
Thunder Bay	62	4,777.5	77.1
Chapleau	27	35.1	1.3
Cochrane	7	10.0	1.4
Gogama	9	201.5	22.4
Hearst	8	68.0	8.5
Kapuskasing	6	102.5	17.1
Kirkland Lake	14	2,175.6	155.4
Moosonee	2	208.4	104.2
Timmins	15	162.2	10.8
Blind River	16	5.2	.3
Espanola	11	9.8	.9
North Bay	55	70.1	1.3
Sault Ste. Marie	13	47.3	3.6
Sudbury	67	95.3	1.4
Temagami	12	10.0	.8
Wawa	17	18.7	1.1
Algonquin Park	22	1.8	.1
Bancroft	23	18.1	.8
Bracebridge	61	35.7	.6
Minden	30	17.0	.6
Parry Sound	33	39.5	1.2
Pembroke	44	47.1	1.1
Carleton Place	10	3.0	.3
Tweed	65	70.3	1.1
Huronia	24	8.5	.4
Lindsay	15	8.2	.5
Owen Sound	14	11.3	.8
TOTAL	1,240	120,418.1	97.1

1984 FOREST FIRES BY MONTH

Month	Number of Fires	Hectares Burned Over	ha per Fire
March	3	.8	.3
April	389	6,107.1	15.7
May	186	17,426.4	93.7
June	87	1,320.5	15.2
July	182	43,567.1	239.4
August	260	51,911.8	199.7
September	96	55.2	.6
October	31	21.3	.7
November	6	7.9	1.3
TOTAL	1,240	120,418.1	97.1

DETECTION OF FOREST FIRES

Agencies	1980	1981	1982	1983	1984
Ministry Aircraft	484	394	230	595	169
Total Organized Detection	484	394	230	595	169
Public	1,021	1,062	1,038	1,277	948
Other Aircraft	268	200	128	372	123
Total Random Detection	1,295	1,262	1,166	1,649	1,071
Total Fires	1,779	1,656	1,396	2,244	1,240
Percentage Organized Detection	27	24	17	27	14

SIZES OF FOREST FIRES

Area Burned Over	1984
Up to .2 hectares	643
Over .2 to 4.0 hectares	493
Over 4.0 to 40 hectares	72
Over 40 to 202 hectares	12
Over 202 hectares	20
Total Fires	1,240

PROSECUTIONS

Actions re: Forest Fires	1980	1981	1982	1983	1984
Prosecutions	178	46	72	89	78
Convictions	171	40	68	82	73

CAUSES OF FOREST FIRES - I

General Causes	1980	1981	1982	1983	1984
Recreation	239	493	517	494	276
Resident	232	150	224	181	221
Incendiary	34	59	39	48	69
Railways	233	153	160	161	94
Industry (Forest)	26	36	11	36	21
Industry (Other)	15	38	22	25	45
Miscellaneous (Known)	160	209	156	178	199
Unknown	47	33	30	31	29
Lightning	793	485	237	1,090	286
Total Fires	1,779	1,656	1,396	2,244	1,240

CAUSES OF FOREST FIRES - II

Source of Ignition	1980	1981	1982	1983	1984
Smoking Materials	173	285	323	250	136
Camp Fires	117	251	243	274	157
Matches	87	109	105	94	98
Fireworks	-	2	1	2	-
Explosives	-	2	-	1	-
Fusee	4	10	9	3	5
Prescribed Burning	-	3	3	2	1
Dump Ashes, Coals	7	6	9	7	6
Burning Grass	74	46	73	38	44
Burning Brush	35	36	37	52	55
Burning Rubbish	38	17	44	31	35
Burning Garbage Dump	33	15	23	34	33
Burning Bulldozed Pile	3	4	-	3	3
Burning Sawdust Pile	1	2	2	-	3
Burning Ties	14	16	19	9	12
Burning Right-of-Way	9	10	20	9	8
Locomotive, Diesel	48	38	27	35	14
Locomotive, Steam	-	-	-	-	-
Brake Shoe	101	47	44	61	30
Overheated Journal Box	6	2	-	2	-
Rail Grinding	-	-	-	13	7
Power Saw	7	7	2	3	4
Mechanical Equip. (Other)	34	49	34	30	12
Mechanical Equipment (Scarification)	-	-	-	9	6
Power Line (Short)	17	21	15	32	114
Sparks from Chimney	2	-	2	1	2
Sparks from Burner	2	1	1	1	1
Structural Fires	10	11	11	16	8
Miscellaneous (Known)	51	54	23	26	32
Unknown	114	129	91	116	128
Lightning	792	483	235	1,090	286
Total Fires	1,779	1,656	1,396	2,244	1,240

CAUSES OF FOREST FIRES - III

Responsible Groups	1980	1981	1982	1983	1984
RECREATION					
Fishermen	81	184	158	161	110
Hunters	4	25	16	13	15
Canoeists	13	23	45	37	22
Campers	41	48	61	69	28
Picnickers	10	10	14	20	1
Berry Pickers	39	105	141	91	38
TRAVELLERS					
Car Passengers	70	96	76	61	35
Hikers	10	28	25	28	10
Train Passengers	-	1	-	-	1
Guided Parties	1	2	2	-	-
RESIDENTS					
Farmers	27	18	26	26	17
Rural Residents	116	88	138	103	127
Urban Residents	15	8	12	13	5
Private Cottagers	45	32	34	44	42
Resort Owners	-	5	2	-	5
Indians (on Reserves)	21	16	14	34	46
VOCATION					
Trappers	-	1	-	-	1
Prospectors	-	2	1	2	4
Timber Cruisers (not MNR)	-	-	-	-	-
Survey Parties	-	-	-	-	-
Military	-	1	1	-	-
EMPLOYEE OF					
Woods Industry	21	31	12	33	16
Mining	2	9	1	4	1
Pipeline	-	-	-	-	-
Hydro	3	3	2	4	5
Telephone	1	1	-	1	-
Highway or Road	2	1	1	1	1
R. R. Section Crew	24	22	39	25	16
R. R. Train Crew	32	24	24	21	17
R. R. Work Crew	167	102	94	110	57
Other Industry	12	17	12	9	11
Natural Resources	10	34	17	6	10
Other Prov. Government	-	1	-	1	-
Federal Government	-	-	-	1	-
Municipality	5	3	6	5	2
MISCELLANEOUS					
Children	60	77	68	76	82
Youth Camps	1	3	-	6	3
Miscellaneous (Known)	50	40	24	66	134
Unknown	103	112	94	83	92
Total Human-Caused Fires	986	1,173	1,160	1,154	954
Percentage of All Fires	55	71	83	51	77

CAUSES OF FOREST FIRES - II

Source of Ignition	1980	1981	1982	1983	1984
Smoking Materials	173	285	323	250	136
Camp Fires	117	251	243	274	157
Matches	87	109	105	94	98
Fireworks	-	2	1	2	-
Explosives	-	2	-	1	-
Fusee	4	10	9	3	5
Prescribed Burning	-	3	3	2	1
Dump Ashes, Coals	7	6	9	7	6
Burning Grass	74	46	73	38	44
Burning Brush	35	36	37	52	55
Burning Rubbish	38	17	44	31	35
Burning Garbage Dump	33	15	23	34	33
Burning Bulldozed Pile	3	4	-	3	3
Burning Sawdust Pile	1	2	2	-	3
Burning Ties	14	16	19	9	12
Burning Right-of-Way	9	10	20	9	8
Locomotive, Diesel	48	38	27	35	14
Locomotive, Steam	-	-	-	-	-
Brake Shoe	101	47	44	61	30
Overheated Journal Box	6	2	-	2	-
Rail Grinding	-	-	-	13	7
Power Saw	7	7	2	3	4
Mechanical Equip. (Other)	34	49	34	30	12
Mechanical Equipment (Scarification)	-	-	-	9	6
Power Line (Short)	17	21	15	32	114
Sparks from Chimney	2	-	2	1	2
Sparks from Burner	2	1	1	1	1
Structural Fires	10	11	11	16	8
Miscellaneous (Known)	51	54	23	26	32
Unknown	114	129	91	116	128
Lightning	792	483	235	1,090	286
Total Fires	1,779	1,656	1,396	2,244	1,240

CAUSES OF FOREST FIRES - III

Responsible Groups	1980	1981	1982	1983	1984
RECREATION					
Fishermen	81	184	158	161	110
Hunters	4	25	16	13	15
Canoeists	13	23	45	37	22
Campers	41	48	61	69	28
Picnickers	10	10	14	20	1
Berry Pickers	39	105	141	91	38
TRAVELLERS					
Car Passengers	70	96	76	61	35
Hikers	10	28	25	28	10
Train Passengers	-	1	-	-	1
Guided Parties	1	2	2	-	-
RESIDENTS					
Farmers	27	18	26	26	17
Rural Residents	116	88	138	103	127
Urban Residents	15	8	12	13	5
Private Cottagers	45	32	34	44	42
Resort Owners	-	5	2	-	5
Indians (on Reserves)	21	16	14	34	46
VOCATION					
Trappers	-	1	-	-	1
Prospectors	-	2	1	2	4
Timber Cruisers (not MNR)	-	-	-	-	-
Survey Parties	-	-	-	-	-
Military	-	1	1	-	-
EMPLOYEE OF					
Woods Industry	21	31	12	33	16
Mining	2	9	1	4	1
Pipeline	-	-	-	-	-
Hydro	3	3	2	4	5
Telephone	1	1	-	1	-
Highway or Road	2	1	1	1	1
R. R. Section Crew	24	22	39	25	16
R. R. Train Crew	32	24	24	21	17
R. R. Work Crew	167	102	94	110	57
Other Industry	12	17	12	9	11
Natural Resources	10	34	17	6	10
Other Prov. Government	-	1	-	1	-
Federal Government	-	-	-	1	-
Municipality	5	3	6	5	2
MISCELLANEOUS					
Children	60	77	68	76	82
Youth Camps	1	3	-	6	3
Miscellaneous (Known)	50	40	24	66	134
Unknown	103	112	94	83	92
Total Human-Caused Fires	986	1,173	1,160	1,154	954
Percentage of All Fires	55	71	83	51	77

AIR SERVICE SUMMARY - I

Hours flown in years ending March 31

Year	Fire Ranging	Timber	Fish and Wildlife	Surveys	Lands	Parks
1980	2,000	1,650	2,500	345	1,000	600
1981	3,000	1,674	2,473	342	1,065	609
1982	1,973	1,760	2,600	360	1,120	640
1983	3,037	1,670	2,460	425	1,217	530
1984	1,364	1,725	2,328	423	1,093	625
1985	1,640	1,830	2,960	478	1,309	590
Total 1924-85	245,307	44,148	117,399	4,776	20,014	15,501

Year	Research	Inter-Ministry	Photo	Mercy Flights	Misc.	Total
1980	400	1,550	550	30	4,525	15,150
1981	380	1,372	621	19	3,662	15,217
1982	400	1,647	656	58	4,789	16,003
1983	456	1,885	640	13	2,855	15,188
1984	450	3,078	572	22	3,111	14,791
1985	474	3,931	680	29	454	14,375
Total 1924-85	11,263	40,579	8,794	1,945	179,182	689,565

AIR SERVICE SUMMARY - II

in years ending March 31

Year	Mercy Flights	Passengers Carried	Loads Carried Tons	Metric Tons
1980	13	27,336	1,023.04	1,132
1981	10	25,480	801.06	883
1982	28	28,485	988.00	1,089
1983	8	30,267	2,069.17	2,280
1984	16	29,175	1,856.73	1,893
1985	13	31,023	1,988.50	2,192

PRESCRIBED BURNING SILVICULTURE, HAZARD RED., MISC.

District	Burns	Hectares
Fort Frances	1	129.5
Geraldton	2	688.0
Chapleau	2	793.0
Cochrane	1	145.0
Gogama	3	480.5
Hearst	2	404.5
Kapukasing	2	120.0
Kirkland Lake	1	251.0
Timmins	1	1,254.5
Blind River	1	271.0
Sault Ste. Marie	2	207.5
Parry Sound	15	146.5
	33	4,891.0

FEDERAL RESEARCH BURNS

District	No. of Burns	No. of Plots	Hectares
Timmins	2	9	8.3
Blind River	1	5	.7
	3	14	9.0

ADMINISTRATION DIVISION

Room W-6345, Main Office Telephone (416) 965-7106

Assistant Deputy Minister.....	R. M. Monzon.....	W-6345.....7106
Administrative Assistant.....	Mrs. W. Paquette.....	W-6344...3-2005
Secretary.....	Mrs. E. Lynch.....	W-6345.....7106
Finance and Administration Group		
Executive Co-ordinator.....	D. J. Johnstone.....	W-6347.....6148
Affirmative Action		
Program Co-ordinator.....	J. Mizanski (acting)....	W-6441.....5663
Communications Services Branch		
Director.....	T. Coleman.....	W-5352.....3315
Personnel Services Branch		
Director.....	H. B. Farrant.....	W-4530.....3825
Legal Services Branch		
Director.....	B. G. Jones (acting)....	W-6420.....2748
Office of Management, Planning and Analysis		
Director.....	P. Bryant.....	W-6350.....4143

Administration Division

COMMUNICATIONS SERVICES BRANCH

Room W-5340, Main Office Telephone (416) 965-2756

Branch Director.....	T. E. Coleman.....	W-5352...5-3315
Secretary.....	Miss M. Goh.....	W-5340...5-3315
Communications Policy Co-ordinator	P. Andrews.....	W-5340...5-2756
Senior Communications Planner....	G. Merchant (acting)....	W-5441...3-2958
Northern Ontario Communications Co-ordinator.....	K. Robertson.....	W-5340...5-2756
Information Services Section.....	Ms. V. Chavossy, Mgr....	W-5340...5-2756
French Language Policy.....	Ms. F. Blais.....	W-5340...3-2026
Writing Co-ordinator.....	Ms. M. Welch.....	W-5340...3-2756
French Language Writer.....	Ms. M. Blouin.....	W-5340...3-0163
Magazine Editor.....	P. Surguy (acting).....	W-5340...5-2758
Media Liaison Supervisor.....	C. Ross.....	W-5340...5-2756
Public Information Centre Supervisor.....	Mary-Ellen Stoll.....	W-1640...5-2445
Parks Information.....	.....	W-1640...5-3081
Fisheries Information.....	.....	W-1640...5-7883
Wildlife Information.....	.....	W-1640...5-4251
Forestry/Lands Information.....	.....	W-1640...5-9751
Maps Information.....	.....	W-1640...5-6511
Aerial Photos.....	.....	W-1640...5-1123
Minerals Information.....	.....	W-1640...5-1348
Creative Services Section.....	J. Grayston Mgr (acting)	W-5440...5-2780
Exhibits & Displays Unit.....	Mrs. E. H. Brown, Spvr..	W-5440...5-2780
Publications Services Unit.....	Ms. C. Haines Spvr., (acting).....	W-5440...5-2780
Publications Editor.....	Ms. M. Reid.....	W-5440...5-2780
Graphic Designer.....	A. Gokhan.....	W-5440...5-2780
Audio Visual Unit.....	A. Campeau, Spvr.(acting)	W-5440...3-1325
Photographers.....	W. Lanning.....	W-5440...3-1325
Photo Library.....	Miss H. Bickle.....	W-5440...3-1325
Film & Audio-visual Consultant.	Miss P. Hancock.....	W-5341...5-2758
Advertising & Marketing Unit Co-ordinator.....	L. Walton.....	W-5440...3-1325
Marketing Officer.....	Ms. P. Purves.....	W-5441...3-2956
	Ms. B. Fairley.....	W-5441...3-2957

Administration Division

PERSONNEL SERVICES BRANCH

Room W-4520, Main Office Telephone (416) 965-3825

Branch Director.....	H. B. Farrant.....	W-4530...3825
M.O.S.S. Unit Manager.....	E. Polonoski.....	W-4601...7240
Corporate Personnel Services Manager.....	E. Cardwell.....	W-4531.3-2692
Personnel Policy & Staff Relations Manager.....	R. Gordon.....	W-4528...6091
Occupational Health & Safety Section Manager.....	A. B. Shipston.....	W-5645...2735

STAFF SUMMARY

Total MNR Staff as of March 31, 1985

	Regular	Probationary	Unclassified	Total
Main Office	943	49	449	1,441
Field Office	2,911	56	1,197	4,164
TOTAL	3,854	105	1,646	5,605

Total Number of Positions	4,159
Total Number of Staff	3,959
Total Number of Vacancies	200
New Employees Hired 1984/85	101
Management Staff	1,032
Executive Staff	39
Bargaining Unit Staff	2,847
Position Excluded Staff	41
Total	3,959
Deceased	8
Transferred	16
Released	3
Resigned	44
Dismissed	2
Retired	59
Total	132

STAFF SUMMARY

at March 31, 1985

	1980	1981	1982	1983	1984	1985
Regular Staff	4,088	4,060	4,093	4,163	3,948	3,819
Probationary Staff	341	322	203	141	49	140
Unclassified Staff	1,938	1,636	1,565	1,380	1,601	1,646
TOTAL	6,367	6,018	5,867	5,684	5,598	5,605
Main Office Staff	917	880	863	917	887	992
Field Office Staff	3,512	3,502	3,439	3,387	3,110	2,967
New Employees	316	306	140	160	57	101
Deceased	11	10	9	12	11	8
Superannuated	89	99	45	78	156	59
Transferred	38	1	36	17	18	16
Resigned	199	165	81	73	85	44
Dismissed	3	3	1	1	2	2
Released	1	5	0	1	1	3
Miscellaneous	0	29	0	1	0	0
Total Separations	341	312	172	183	273	132
Junior Rangers	1,800	1,736	1,736	1,636	1,716	1,716

MANAGEMENT GROUPS

Administrative	240
Clerical	17
Operational	13
Professional	273
Technical	489
Total	1,032
Executive Compensation Plan	39
Position Excluded	41

BARGAINING UNIT CATEGORIES

Administrative Services	97
Scientific & Professional	418
Technical Services	1,296
Office Services	333
Clerical Services	420
Maintenance Services	221
General Operational Services	62
Total	2,847

Administration Division

LEGAL SERVICES BRANCH *

Room W-6420, Main Office Telephone (416) 965-2748

Director (acting).....	B. G. Jones.....	W-6420.....2748
Solicitors.....	S. B. Campbell.....	W-6420.....2748
	C. L. Cottle.....	W-6420.....2748
	M. M. Crystal.....	W-6420.....2748
	W. R. Grace.....	W-6420.....2748
	S. A. Klein.....	W-6420.....2748
	L. A. Low.....	W-6420.....2748
	C. E. Mansfield.....	W-6420.....2748
	D. A. Pigeon Bernotas...	W-6420.....2748
	J. Skala.....	W-6420.....2748
	T. N. Trow.....	W-6420.....2748
	M. N. K. Toor.....	W-6420.....2748

* Legal Services Branch was transferred to the Attorney General on April 1, 1973, and was seconded to the Minister of Natural Resources on the same date.

Legal matters dealt with by the Branch include legal opinions, drafting statutes, regulations, orders in council, litigation and all other matters of a legal nature affecting the Ministry.

LEGISLATION

The Acts administered by the Ministry are as follows:

LANDS AND WATERS GROUP

THE BEDS OF NAVIGABLE WATERS ACT (sometimes referred to as the "Cochrane Act") is declaratory legislation relating to title in the beds of navigable waters. It followed the decision in the 1911 case of Keewatin Power versus The Town of Kenora. By the Act, the beds are deemed not to have passed to the grantee of bordering Crown land in the absence of an express grant.

THE ONTARIO GEOGRAPHIC NAMES BOARD ACT provides for the establishment of a Geographic Names Board for Ontario having the duty to gather information respecting the names of places and geographical features, make recommendations thereon, collaborate with the Canadian Permanent Committee on Geographic Names, and provide information to government departments, etc. The Minister may approve a recommended name and thereupon it shall be used by all government departments and agencies in the preparation of maps and other publications.

THE ONTARIO HARBOURS AGREEMENT ACT, 1962-63, confirms on behalf of Ontario the agreement between Ontario and Canada establishing the harbours which were public harbours at Confederation, providing that mines and minerals therein are administered by Ontario and confirming grants and quit claims listed therein. The federal harbours are Amherstburg, Belleville, Brockville, Chatham, Collingwood, Fort William, Gananoque, Goderich, Kincardine, Kingston, Kingsville, Leamington, Oshawa, Owen Sound, Penetanguishene, Port Arthur, Port Burwell, Port Hope, Port Stanley, Prescott, Rondeau Bay, Sarnia, Sault Ste. Marie, Southampton, Toronto, Whitby and Windsor.

THE PUBLIC LANDS ACT provides for: (1) A Public Agricultural Lands Committee to recommend on agricultural lands and their settlement, replacing the regulations on this subject; (2) The disposition of Crown land for a variety of purposes by sale, lease or licence, and by auction or tender; (3) The management of Crown land by the Ministry by zoning for land use, setting apart for public use, research, etc., and through agreements with municipalities on beaches and water lots; (4) The administration of roads on Crown lands including the designation of public forest roads and agreements with occupiers of private forest roads respecting the use by the public of private forest roads; (5) The administration and control of the construction and maintenance of dams; (6) The granting of water powers and privileges.

THE SURVEYORS ACT deals with the Association of Ontario Land Surveyors and the rules governing membership and conduct. The Minister or his appointee and the Surveyor-General are members of the Council of the Association.

THE SURVEYS ACT defines the system of surveys and the rules for surveyors. The Minister orders surveys made on his volition or upon application to settle disputes or lost lines, etc,; and hearing evidence, he confirms the surveys, with or without amendment. His decision is subject to appeal to a judge of the Divisional Court.

THE NORTH GEORGIAN BAY RECREATIONAL RESERVE ACT, 1962-3, establishes the North Georgian Bay Recreational Reserve and provides for the planning and development thereof and the appointment of a committee to advise the Minister thereon.

THE MINING ACT with respect to: the administration of public lands for mining purposes; the issuing of licences and leases relating to exploration and drilling for, and the production of, minerals and oil and natural gas; the staking and recording of mining claims; and the rights of licensees and lessees under the Act. An acreage tax is levied under this Act. (See under Mineral Resources Group).

THE BEACH PROTECTION ACT prohibits the removal of sand from the bed, bank, beach, shore or waters of any lake, river or stream in Ontario except under the authority of a licence issued under the Act or written consent of the local municipality.

THE CANADA COMPANY'S LAND ACT, 1922, empowers the Crown to sell and convey to purchasers of lands from the Canada Company the mineral rights in the lands.

THE LAKES AND RIVERS IMPROVEMENT ACT deals with: the construction, repair and use of dams; timber driving; and timber slide companies. The Act prohibits construction of dams without Ministry approval. The Minister is given discretionary powers relating to the repair, reconstruction and removal of dams, maintenance of water levels, and regulation of use of waters or works.

THE CONSERVATION AUTHORITIES ACT provides for the establishment of conservation authorities for the purpose of establishing and undertaking in the area over which they are given jurisdiction, programs designed to further the conservation, restoration, development and management of natural resources other than gas, oil, coal and minerals.

FOREST RESOURCES GROUP

ARBOREAL EMBLEM ACT, 1984 adopts the Eastern White Pine as the arboreal emblem of the Province of Ontario.

THE CROWN TIMBER ACT enables the granting of the following four types of licences to cut Crown timber, a licence based on a call for tenders, a licence to salvage timber, a licence for areas that do not exceed 64.75 hectares (160 acres), and a licence approved by Order in Council for large areas.

The act also enables the Minister to enter into comprehensive forest management agreements with members of the forest industry to ensure that forests under the agreements are harvested and regenerated to produce successive crops of timber on a sustained yield basis.

Crown Management Units may be established under the Act and agreements entered into for the supply of Crown timber from such units. Under this arrangement, the party to the agreement does not have exclusive rights in a specific area until a licence is granted to him to fill his requirements for an operating season.

Crown dues and area charge are fixed by the regulations.

Other subjects dealt with are: forest management, operating and annual plans; examination of scalers and licensing of scalers; licensing of mills; penalties for wasteful practices, unauthorized cutting, removal of timber for scaling, and other violations; and protection of the Crown's interests through seizure of timber and a statutory lien for Crown charges.

THE FORESTRY ACT. Under this Act: (1) The Minister enters into agreements with landowners such as municipalities, conservation authorities and the National Capital Commission (Ottawa) to manage the forest lands; (2) Ministry tree nurseries are established and nursery stock is distributed; (3) Private forest reserves are set up on private lands with the consent of the owner; (4) The Minister, with the approval of the Lieutenant Governor in Council, may establish programs for the encouragement of forestry. At present, a managed forest tax reduction program has been established by the Minister.

THE SETTLERS' PULPWOOD PROTECTION ACT provides for the regulation of the sale and of the price of pulpwood cut from settlers' land.

THE SPRUCE PULPWOOD EXPORTATION ACT provides for the exportation under the authority of an Order in Council of unmanufactured spruce pulpwood from lands granted under special Acts which prohibit such export.

THE TREES ACT provides that, with the Minister's approval, municipalities may pass by-laws restricting and regulating the destruction of trees and appoint enforcement officers. Generally, by by-law, municipalities may acquire land for forestry purposes and enter into agreements with the Minister for the management of such lands and related matters.

THE WOODLANDS IMPROVEMENT ACT provides for the Minister to enter into agreements with owners of lands suitable for forestry purposes and situate in a private forest management area for the planting of nursery stock or stand improvement.

THE WOODMEN'S EMPLOYMENT ACT authorizes the appointment of inspectors and the making of regulations respecting conditions in lumber camps. It also provides that Crown timber licensees are responsible for the acts and omissions of their jobbers and subcontractors who carry out operations.

THE WOODMEN'S LIEN FOR WAGES ACT provides a lien and a procedure to enforce such lien for persons performing labour on timber.

THE ALGONQUIN FORESTRY AUTHORITY ACT establishes a Crown corporation known as the Algonquin Forestry Authority to harvest Crown timber in Algonquin Provincial Park and public lands adjacent to the park, to sell the logs and also to carry out such forestry, land management and other programs and projects as the Minister of Natural Resources authorizes.

THE FOREST TREE PEST CONTROL ACT provides for the control of outbreaks of forest tree insects and diseases on private lands.

MINERAL RESOURCES GROUP

THE MINING ACT with respect to: the issuing and administration of exploratory licences and production leases for oil and natural gas on public lands in designated parts of Ontario; processing applications for exemptions from restrictions on foreign processing; refinery licences; and the regulation of mining operations conducted within Ontario except under Part IX. (Also see under Lands and Waters Group.)

THE PITS AND QUARRIES CONTROL ACT provides for the regulation of pit and quarry operations in designated parts of Ontario. Operations in designated areas must be licensed under the Act and are subject to periodic review to assure compliance with the provisions of the Act, the regulations and site plan.

THE PETROLEUM RESOURCES ACT sets forth licensing requirements for various aspects of oil and natural gas exploration, drilling and production and provides for the making of regulations respecting oil and gas conservation and the safe operation of drilling and production facilities.

THE MINING TAX ACT a revenue generating unit which offers incentives to mineral producers for exploration, production and processing in Ontario, imposes a profit tax on Ontario mines. The tax is assessed on the value of output of the mine at the pit's mouth determined in accordance with the provisions of the Act.

THE ONTARIO MINERAL EXPLORATION PROGRAM ACT provides incentives to encourage mineral exploration activities in the province by providing grants/tax credits equal to 25 per cent of eligible exploration expenses to prospectors, non-producing exploration companies and to individual investors and corporations not directly engaged in mining activities in order to stimulate the financing of mineral exploration.

THE INDUSTRIAL AND MINING LANDS COMPENSATION ACT provides for agreements between the owner or operator of a mine and the owner or lessee of any land for payment of compensation for any damage or injury resulting or likely to result to the land or to its use and enjoyment from the operation of the mine.

THE GAS AND OIL LEASES ACT sets out the procedure whereby a lessor under a gas or oil lease may, upon default by the lessee under the terms of the lease, obtain an order declaring the lease void.

OUTDOOR RECREATION GROUP

THE ENDANGERED SPECIES ACT provides for the conservation, protection, restoration and propagation of species of flora and fauna of the Province of Ontario that are threatened with extinction.

THE GAME AND FISH ACT deals with the management of wildlife resources; game animals; game birds (upland); fur-bearing animals; frogs; sale and rearing of game fish; and offences and enforcement. Regulations made under the Act establish open seasons for hunting and trapping; bag limits; Crown game preserves; the licensing of hunters, trappers, guides, persons operating game bird hunting preserves, and persons selling game fish for stocking and human consumption; the regulating of dogs used in hunting, aircraft transporting hunters, and conduct of hunters (hunter safety); and farmer-hunter relations. The Game and Fish Hearing Board was established under the Act on November 15, 1973.

THE FISH INSPECTION ACT is complementary to the Federal Act.

THE FISHERIES ACT (CANADA) Ontario Fishery Regulations are made under this Act. They relate to open seasons for angling and commercial fishing and the licences required. The form of licences and the fees are prescribed under the Game and Fish Act.

THE FISHERIES LOAN ACT provides for loans to persons carrying on the business of commercial fishing or any other business dependent in whole or in part on the taking of fish from waters in which such taking has been prohibited by reason of the contamination of fish resulting from pollution of the water. Provision is made for federal-provincial agreements respecting the sharing of such loans.

THE FRESHWATER FISH MARKETING ACT (ONTARIO) complements the Freshwater Fish Marketing Act (Canada). Through these Acts and the federal-provincial agreement, the Freshwater Fish Marketing Corporation established under the Federal Act is the sole purchaser of commercial fish, as defined in the Federal Act, taken in that part of Ontario designated in the regulations, i.e., that part of Ontario westerly of longitude 86 degrees except the Territorial District of Rainy River but including that part of Lake of the Woods in the Territorial District of Rainy River. Sales to and purchases by persons for their own consumption or for consumption by persons or animals in the course of the purchaser's business are excepted.

THE WILD RICE HARVESTING ACT prohibits the harvesting of rice on Crown land except under the authority of a licence.

THE WOLF DAMAGE TO LIVESTOCK COMPENSATION ACT, 1972, provides for payment of compensation to the owners of livestock killed or injured by wolves.

THE MIGRATORY BIRDS CONVENTION ACT. Open seasons for migratory birds are set under this Act.

THE PROVINCIAL PARKS ACT provides for the establishment of provincial parks and their management and for certain employees having the authority of the O.P.P. in a provincial park. Advisory committees for one or more provincial parks may be appointed by the Minister with the approval of the Lieutenant-Governor in Council. Parks may be classified as a natural environment park, a nature reserve park, a wilderness park, a recreational park, a waterways park, or an historical park. Any of these classes may be zoned with controlled use in zones.

Mining is prohibited in provincial parks except as provided in the regulations. The regulations on mining were revoked in 1956 but rights and interest existing at that time were preserved.

Hunting is prohibited in provincial parks except as provided in the regulations under the Game and Fish Act or where the prohibition is removed by designation of the Lieutenant-Governor in Council under the Provincial Parks Act. This does not apply to the Townships of Bruton and Clyde (added to Algonquin Provincial Park by a Special Act).

Concession leases are granted under the Act. The province calls for tenders for buildings and facilities.

Vehicle admission charge is $2.50 per day or $25.00 for the season. Campsite charges are $6.75 per day, or $7.25 per day where comfort station facilities are available, and $8.75 per day for campsites with electrical power. The charge for an extra car on a campsite is $3.00 per day. On unorganized campsites in park interiors the charge is $2.00 per person.

The above fees reflect those charged during peak periods. They may vary, depending on location and time of year.

This Act does not apply to any park under the management of the Niagara Parks Commission, the St. Lawrence Parks Commission or the St. Clair Parkway Commission.

THE WILDERNESS AREAS ACT was passed on March 26, 1959, to preserve areas having some unique feature. Development or utilization or the natural resources in an area more than 260 ha (640 acres) in size is not affected by this Act.

THE PARKS ASSISTANCE ACT provides for the establishment of parks in municipalities or in territory without municipal organization. The Minister may with the approval of the Lieutenant-Governor in Council make grants not exceeding 50 per cent of the cost of acquiring land and developing such parks. The parks established under the Act are to be maintained and operated in a manner complementary to provincial parks.

AVIATION AND FIRE MANAGEMENT CENTRE

THE FOREST FIRES PREVENTION ACT applies to the seven fire regions set up by regulation. The fire season from April 1st to October 31st, may be extended by regulation. Fire permits are required during the fire season to (a) start fires in a fire region except for fires set out for cooking or warmth or to (b) ignite fireworks in or within 300 m of a forest or woodland. Work permits are required at any time of the year for carrying on any logging, mining, industrial operation or clearing in or within 300 m of a forest or woodland. Areas may be established as restricted fire zones in which fires for cooking or warmth will be restricted to portable stoves and barbecues or as restricted travel zones in which a travel permit will be required except on public roads, cities, towns, villages, police villages, supervised camping grounds and water adjacent thereto. The Minister may declare emergency areas and may make orders for suppression and the safety and evacuation of persons. The Minister may enter into agreements with Canada, any province, any federal or provincial agency or municipality respecting the prevention and control of forest fires. The regulations establish fire precautions.

GENERAL

THE MINISTRY OF NATURAL RESOURCES ACT effective as of April 1, 1972, created the new Ministry of Natural Resources by amalgamating the former Department of Lands and Forests and Department of Mines and Northern Affairs and repealed the provisions of a number of Acts on which the departments depended for administrative authority. Effective October 30, 1973, the Act provides for the appointment of a Mining and Lands Commissioner and advisory committees.

THE LAKE OF THE WOODS CONTROL BOARD ACT, 1922, is complementary to a Federal Act of 1921. It deals with the regulation of the water levels of the Winnipeg River, the English River, Lac Seul and Lake St.Joseph. The Board was created following a report in 1917 by the International Joint Commission which was established under a treaty made in 1909 between the United States and Great Britain. The membership of the Board consists of a Federal representative and one from Manitoba and two from Ontario. One Ontario member is appointed by the Ontario Hydro. The other is R. M. Odell, Chairman of the Lake of the Woods Control Board and Acting Supervisor, Models and Consultative Services, Conservation Authorities and Water Management Branch, Ministry of Natural Resources, with D. L. Strelchuk as alternate member.

The Board has the duty to secure severally and at all times the most dependable flow and the most advantageous and beneficial use of the Winnipeg and English Rivers and, for the purpose, to regulate the overflow of:

(a) Lake of the Woods, to levels recommended by the International Joint Commission as agreed by Canada and the United States;
(b) Lac Seul, to levels recommended by the Board and approved by the Lieutenant-Governors in Council of Ontario and Manitoba and to regulate the flow into Lac Seul through the Lake St. Joseph diversion.
(c) Winnipeg River, between its junction with the English River and Lake of the Woods, and the English River between its junction with the Winnipeg River and Lac Seul; and
(d) Other waters of the watershed of the Winnipeg River as are placed under its jurisdiction by the Governor-General in Council and the Lieutenant-Governors in Council of Ontario and Manitoba.

THE LAC SEUL CONSERVATION ACT, 1928, provides for the execution of an agreement between the Minister of Lands and Forests and the Government of Canada regarding the construction of a conservation dam at the outlet of Lac Seul.

THE OTTAWA RIVER WATER POWERS ACT, 1943, ratifies and confirms an agreement between the Province of Ontario, the Province of Quebec, the Hydro-Electric Power Commission of Ontario and the Quebec Streams Commission respecting the development of water power on the Ottawa River.

THE SEINE RIVER DIVERSION ACT, 1952, confirms the partial diversion of the Seine River and authorizes the completion and operation of the diversion by Steep Rock Iron Mines Limited.

THE NATIONAL RADIO OBSERVATORY ACT, 1962-3, provides for the transfer of administration and control of certain public lands in the Township of White, District of Nipissing, to Canada for the maintenance and operation of a national radio observatory.

THE GANANOQUE LANDS ACT, 1961-2, vests certain lands in the town of Gananoque in the Crown and authorizes the sale of encroachments to adjoining owners for a fee of $50.00 and the granting of the balance of the land.

THE ALGONQUIN PROVINCIAL PARK EXTENSION ACT, 1960-1, adds the public lands in the Geographic Townships of Bruton and Clyde in the Provincial County of Haliburton to the park, subject to hunting.

THE MINERAL EMBLEM ACT, 1975, adopts the amethyst as the mineral emblem of the Province of Ontario.

THE MANITOBA-ONTARIO LAKE ST. JOSEPH DIVERSION AGREEMENT AUTHORIZATION ACT, 1958, provides for entry by Ontario and The Hydro-Electric Power Commission of Ontario into an agreement with Manitoba and The Manitoba Hydro-Electric Board in respect of the diversion of waters into the Winnipeg River and electrical power generated from such waters in Ontario and Manitoba.

MINING AND LANDS COMMISSIONER

Box 330, 24th Floor, 700 Bay St. Telephone (416) 965-1824
Toronto, Ontario M5G 1Z6

Commissioner..... G. H. Ferguson, Q.C.

Administrative Assistant..... J. K. Kinsella

JUDGEMENTS, ORDERS AND REPORTS

Year	Extensions for Work and Lease	Extensions For Tagging	Special Renewals of Licences	Misc.	Total
1979	858	-	63	73	994
1980	1,046	1	74	60	1,181
1981	1,338	1	73	75	1,487
1982	1,430	-	80	154	1,664
1983	1,411	-	74	119	1,604
1984	1,703	1	85	191	1,980
1985	2,032	-	113	255	2,400

PROJECTED REVENUE FROM EXTENSION ORDERS

Year	No. of Claims Prior To Default	Amount	No. of Claims Relief from Forfeiture	Amount
1979	8,147	$40,735	871	$ 8,710
1980	8,434	42,170	694	6,940
1981	11,957	59,785	1,329	13,290
1982	13,692	68,460	1,801	18,010
1983	13,675	68,375	1,863	18,630
1984	19,960	99,800	3,714	37,140
1985	26,129	$130,645	5,156	51,560

HEARINGS UNDER STATUTES OF THE MINISTRY

Year	Beach Protection Act	Conservation Authorities Act	Lakes & Rivers Improvement Act	Mining Act	Mining Tax Act	Other	Total
1979	-	11	1	9	3	-	24
1980	-	11	1	6	1	-	19
1981	-	4	1	13	-	-	18
1982	-	17	-	36	1	1	55
1983	-	16	1	27	-	-	44
1984	-	12	2	35	-	-	49
1985	-	16	-	53	-	-	69

MATTERS WITHDRAWN, ABANDONED OR TRANSFERRED TO SUPREME COURT

1979	-	8	-	-	1	-	9
1980	-	12	4	4	1	-	21
1981	-	1	-	3	-	-	4
1982	-	9	-	3	-	-	12
1983	-	3	-	9	-	-	12
1984	-	4	-	6	-	-	10
1985	-	2	1	10*	-	-	14

* one application to transfer to Supreme Court was refused by it.

Administration Division

FINANCE AND ADMINISTRATION GROUP

Room W-6347, Main Office Telephone (416) 965-6148

Executive Co-ordinator.....	D. J. Johnstone.....	W-6346.....6148
Secretary.....	Heather Daley.....	W-6346.....6147
Co-ordinator, Systems Implementation.....	J. A. Queen.....	W-6341.....3322

SYSTEMS SERVICES BRANCH

Main Office, Room W-6540 (416) 965-5671

Director.....	J. H. Findeis.....	W-6547.....2750
Systems Co-ord. Mgr.....	C. K. Moulson.....	W-6546.....5674
Manager, Data Base.....	L. Bailey.....	W-6545...3-1327
Operations Supervisor.....	D. Trentadue.....	W-5426.....3794
Major Systems, Sr. Systems Officer.....	L. Davidson.....	W-6544.....3790
Advanced Technology Systems Senior Systems Officer.....	R. Orawski.....	W-6502...3-2391
Technical Support Supervisor.....	M. Zillman.....	W-6543...3-2392
Sr. Systems Co-ordinator.....	J. Sanford.....	W-5611...3-1450

INTERNAL AUDIT SERVICES BRANCH

Room W-4633, Main Office Telephone (416) 965-4087

Branch Director.....	A. A. Ward.....	W-4637.....4087
Main Office Audit Section Audit Manager.....	D. L. Lay.....	W-4634.....4087
Northern Audit Section Box 5000 Thunder Bay, P7C 5G6 Audit Manager.....	N. D. Nurse.....	(807) 475-1211 (IC 844)
Sault Ste.Marie sub-office 875 Queen Street East Sault Ste.Marie, P6A 2B3 Senior Auditor.....	W. C. Johnstone.....	(705) 949-1231 (IC 842)
Southern Audit Section c/o District Office Maple, LOJ 1E0 Audit Manager.....	D. A. Dooling.....	(416) 832-2761 Ext.281

Administration Division

FINANCIAL RESOURCES BRANCH

Room W-4325, Main Office, Telephone (416) 965-2761

Director.....	Mark Cox.....	W-4324...5-2761
Chief Accountant.....	Ian Nott.....	W-4326...5-2761
Financial Control Section.....	Ron McDougal.....	W-4320...5-1895
Financial Reporting & Claims Section.....	Vince Ferrara.....	W-4320...5-1895
Financial Methods Section.....	George Jarzabek.....	W-4328...5-1218
Financial Policy Development Section.....	Ed Young.....	W-4501...5-1033
Accounting Operations.....	Paul Comeau.....	W-4340...5-9774
Accounting Section.....	Claudette Obelnycki.....	W-4441...5-2251
Accounts Payable Section.....	Tom Tunnicliff.....	W-4303...5-2764
Licence Issuing Section.....	Terry Headley.....	W-4342...5-2814
Payroll Section.....	Lorne Bent (acting).....	W-4341...5-2766
Revenue Section.....	Shirley Perry.....	W-4443...5-2770
Program Planning & Budget Section.....	David Cope.....	W-4420...5-7086
Financial Planning & Program Evaluation Section.....	Philip Wormwell.....	W-4427...5-7182

Administration Divsion
Finance and Administration Group

REVENUE AND EXPENDITURES

in years ending March 31

Year	Budgetary Revenue $	Budgetary Expenditure $
1981	275,562,265	349,475,311
1982	160,546,904	363,253,018
1983	135,735,095	374,348,745
1984	149,669,629	407,490,465
1985	238,765,999	437,550,337

LANDS REVENUE

in years ending March 31

Year	Water Power $	Crown Land Sales $	Crown Land Rentals $	Park Rentals & Fees $	Pits and Quarries Licences $	Land Use Permits $
1981	19,158,930	2,936,644	754,447	131,733	114,125	478,788
1982	20,604,400	2,243,525	947,993	125,483	159,275	558,492
1983	23,613,132	1,690,312	994,362	-	162,750	647,007
1984	25,593,045	1,719,761	959,100	-	165,015	712,854
1985	67,389,828	1,499,961	939,607	-	158,225	873,559

Year	Assignments & Extension Fees $	Cons. Authorities Federal Agreements $	Return of Grants $	Recovery Prior Years Land Acquisition $	Misc. $	Total $
1981	85,131	413,588	69,325	2,243	270,350	24,415,304
1982	16,300	511,589	469,201	103,966	87,549	25,827,773
1983	20,453	1,103,543	148,277	2,791	115,146	28,497,773
1984	22,575	137,594	172,653	38,597	386,148	29,907,342
1985	22,600	698,991	165,550	62	337,812	72,086,195

TIMBER REVENUE

in years ending March 31

Year	Stumpage Charges $	Timber Area Charges $	Nursery Tree Sales $	Agreement Forest $	Federal Agreement $	Misc. $	Total $
1981	47,266,552	4,401,176	609,097	282,646	1,885	92,587	52,653,943
1982	38,204,534	4,437,802	818,152	354,783	9,751	68,697	43,893,719
1983	39,137,899	3,435,840	943,801	539,326	-	64,177	44,121,043
1984	46,754,081	4,625,266	606,385	586,724	5,763	67,840	52,646,059
1985	55,473,234	4,375,434	659,927	410,222	145,372	73,940	61,138,129

MINING REVENUE

in years ending March 31

Year	Licences and Permits	Mining Claims	Sale of Mining Lands	Rentals	Royalties
1981	111,328	639,844	11	847,501	2,380,790
1982	319,952	537,731	3,191	582,818	2,250,102
1983	412,918	528,050	1,375	1,695,196	6,101,775
1984	569,477	661,066	3,003	732,129	4,660,987
1985	197,787	781,015	-	1,402,097	6,768,365

Year	Taxes	Forfeitures	Laboratory Fees	Rec. of Prior years Expenditure	Federal Agreement	Total
1981	161,061,781	4,060	108,408	-	-	165,153,723
1982	55,411,740	2,840	153,161	-	-	59,261,535
1983	26,178,380	1,980	163,410	-	1,187,031	36,270,115
1984	32,544,776	2,700	178,985	-	1,479,939	40,833,062
1985	65,093,544	1,640	90,285	-	2,327,747	76,662,480

PROVINCIAL PARKS REVENUE

in years ending March 31

Year	Permits $	Campsite Permits $	Concessions Rental $	St. Lawrence Lic. & Permits $
1981	935,283	5,585,691	477,926	1,931,825
1982	1,215,227	5,519,852	356,984	1,933,584
1983	1,135,392	6,555,071	402,132	-
1984	1,392,446	6,620,918	387,401	-
1985	1,154,514	6,749,029	347,185	-

Year	Federal Agreement $	St. Clair Pkwy. Commission $	Misc. $	Total $
1981	2,448,976	15,000	133,917	11,528,618
1982	1,572,055	18,000	188,964	10,804,666
1983	190,089	1,500	162,470	8,506,654
1984	14,879	-	155,269	8,570,913
1985	-	-	134,860	8,385,588

FISH AND WILDLIFE REVENUE

in years ending March 31

Year	Non-Res. Angling $	Other Fishing $	Commercial Fishing $	Non-Res. Hunting $
1981	7,513,033	152,757	122,301	1,605,102
1982	7,610,191	156,957	117,419	1,490,490
1983	7,466,134	169,829	148,254	1,382,798
1984	7,256,322	172,716	65,009	1,212,760
1985	9,197,224	185,642	179,953	1,262,753

FISH AND WILDLIFE REVENUE

Year	Resident Bear $	Resident Deer $	Resident Moose $	Resident Groundhog $	Res.(Gun) Hunting $
1981	87,738	1,184,553	1,483,473	100,653	1,629,245
1982	122,105	1,296,196	1,375,086	83,677	1,584,495
1983	132,636	1,362,761	1,719,562	78,807	1,580,569
1984	147,866	1,507,761	1,404,361	2,782	1,490,967
1985	131,238	1,641,430	1,768,078	-	1,513,349

Year	Dog $	Trappers $	Fur Dealers $	Hunter Exam Fee $	Prov. Park Hunting $
1981	76,998	69,635	8,400	90,006	66,088
1982	75,957	65,387	8,950	85,722	53,400
1983	73,258	62,923	9,675	86,178	67,264
1984	72,939	57,252	8,925	59,967	64,712
1985	75,278	56,259	9,150	63,342	50,160

Year	Misc. Fees & Licences $	Royalty Game $	Agreements Outside Agencies $	Federal $	Total $
1981	118,488	1,201,461	76,016	291,475	15,877,422
1982	140,728	1,159,433	123,947	361,447	15,911,587
1983	229,813	729,477	165,750	80,254	15,545,942
1984	194,324	669,126	120,829	431,243	14,939,861
1985	404,620	639,480	90,584	291,905	17,560,445

OTHER CASH RECEIPTS

in years ending March 31

Year	Sale of Maps, Publications etc. $	Fire Costs Recovered $	House Rentals $	Sale of Buildings $	Sale of Van and Equip. $
1981	2,265,256	651,527	415,824	14,513	1,648,707
1982	2,300,366	670,538	450,197	5,112	479,650
1983	686,651	306,055	411,266	30,012	393,846
1984	634,013	160,740	402,108	6,946	490,149
1985	761,511	114,668	367,696	13,355	505,729

Year	Con-fiscated Articles $	Frost Centre $	Non-Recurring Items and Misc. $	Board & Lodging $	Total $
1981	21,714	296,127	378,010	241,577	5,933,255
1982	46,149	340,651	379,107	175,854	4,847,624
1983	59,412	401,061	301,008	204,257	2,793,568
1984	42,695	457,832	403,170	174,739	2,772,392
1985	59,176	497,619	465,681	147,727	2,933,162

Administration Division

ADMINISTRATIVE SERVICES BRANCH

Room W-5528, Main Office Telephone (416) 965-2711

Branch Director.....	T. Pierro (acting).....	W-5528.....2711
Branch Administration Co-ordinator.....	Ms. M. Clement.....	W-5520.....2711
Operations Analysis.....	R.E. Armstrong, Chief...	W-5526.....3317
Administrative Services Analyst	Ms. S. Fasken.....	W-5520.....4600
Fleet & Insurance.....	L. Krol.....	W-5504.....1255
Co-ordinator, Supply Mgmt. Unit	Ms. L. Wright.....	W-5520.....4600
Contracting Specialist.....	P. Mooradian.....	W-5520.....4600
Contracts Clerk.....	K. Browne.....	W-5520.....4600
Purchasing Specialists.....	W. Howson.....	W-5520.....4600
	Ms. B. Martin.....	W-5520.....4600
Services.....	H. L. Bembridge, A/Chief	W-5527.....4600
Purchasing Unit.....	Ms. M. Marcel, Mgr.....	W-5533.....1601
Facilities Development Unit....	P. Coghill, Mgr.....	W-5423.....4645
Facilities.....	J. Petersen.....	W-5423.....4645
Accommodation Services.....	S. Fenton.....	W-5423.....4645
Forms and Records Management.	.....	W-5422.....3822
Support Services Unit.....	D. Sibley A/Mgr.....	W-5302.....5134
Office Services.....	.....	W-5302.....5134
Vehicle & Assets Officer.....	Ms. L. Burchat.....	W-5302.....5134
Copy Centre Services.....	.....	W-5501.....6790
Mail Services.....	.....	W-5310.....2778
Telex & Telecopier Services..	.....	W-5312.....2784
Central Supply Warehouse..... (51 Esander Drive, Toronto)	D. Billingham A/Spvr....	1286
Conferences, Hospitality Services.....	M. D. Cantelon.....	W-5301.....6166

VEHICLES AND EQUIPMENT IN SERVICE

in year ending March 31, 1985

Type	Number in Operation
Subcompact Cars and Station Wagons	7
Compact Cars and Station Wagons	189
Full-size Cars and Station Wagons	77
Standard and Extended Pickups	829
Four-wheel Drive Vehicles	295
Crew Cabs	86
Passenger Vans and Personnel Carriers	154
Buses	6
Cab and Chassis - 10,000 GVW	83
Cab and Chassis - over 10,000 GVW	123
Cab and Chassis - specialized bodies	25
TOTAL	1,874
Motorcycles	49
Trailers (boat and equipment)	985
Trailers (refrigerated)	26
Snowmobiles	598
Tractors	355

NORTHWESTERN REGION

Box 5160, 810 Robertson St., Kenora Ont. P9N 3X9
Phone (807) 468-3111

D. R. Johnston.....	Regional Director
W. J. Straight.....	Deputy Reg. Director
D. R. Fortner.....	Deputy Reg. Director
G. N. McGeachy.....	Admin. Co-ordinator
A. G. Mathews.....	Forester
G. K. Winterton.....	Biologist
G. N. Warner.....	Safety Officer
R. C. Beard.....	Mineral Resources Co-ordinator
R. H. Hanlan.....	Senior Planner
D. M. C. Lindstrom.....	Operations & Services Co-ordinator
K. J. Chambers.....	Resource Development Co-ordinator
W. Kostantin.....	Personnel Officer

Fire Management Centre
T. Campbell, Program Manager - Fire Management
Box 850, Dryden... Phone (807) 937-4402

Dryden Tree Nursery
M. McIntyre, Nursery Supt.
Box 90, Wabigoon... Phone (807) 938-6326

KENORA DISTRICT

Box 5080, 808 Robertson St., Kenora, Ont. P9N 3X9.
Phone (807) 468-9841

D. B. McGregor.....	District Manager
R. G. McCue.....	Administration
D. Philippi.....	Field Services
W. H. Mills.....	Forests
T. J. Lunny.....	Land Management
R. W. Paterick.....	Parks
C. E. Blackburn.....	Geologist
M. D. Hall.....	Mining Recorder

FORT FRANCES DISTRICT

922 Scott Street, Fort Frances, Ont. P9A 1J4
Phone (807) 274-5337

J. K. Cleaveley.....	District Manager
T. M. McWhirter.....	Administration
S. E. Cameron.....	Parks & Operations
E. J. Swift.....	Fish & Wildlife
A. P. Matiece.....	Forests
C. E. Horne.....	Land Management
A. P. Colfer.....	Pilot

SIOUX LOOKOUT DISTRICT

Box 309, Sioux Lookout, Ont. P0V 2T0
Phone (807) 737-1140

J. Young	District Manager
W. L. Bertrand	Administration
H. D. Morrison	Operations/Parks
A. A. Martin	Fish & Wildlife
B. A. Ferguson	Forests
F. E. Brown	Land Management
D. A. Janes	Geologist
R. Spooner	Mining Recorder

DRYDEN DISTRICT

Box 730, Ontario Govt. Bldg., Dryden, Ont. P8N 2Z4
Phone (807) 223-3341

G. M. Tupling	District Manager
J. A. Hamilton	Administration
J. A. MacDonald	Parks & Operations
F. D. Kennedy	Forests
H. Gibbard	Fish & Wildlife
E. M. Wires	Land Management

RED LAKE DISTRICT

Box 5003, Red Lake, Ont. P0V 2M0
Phone (807) 727-2253

E. W. Everley	District Manager
B. A. Larkin	Administration/Operations
N. Ward	Fish & Wildlife
Vacant	Forests
E. R. Keast	Land Management/Parks
M. J. Lavigne	Geologist
A. S. Rivett	Mining Recorder

IGNACE DISTRICT

Box 448, Ignace, Ont. P0T 1T0
Phone (807) 934-2233

P. Wyatt	District Manager
W. A. Brunton	Administration
P. R. Croskery	Fish & Wildlife
R. D. Scott	Forests
J. D. Bond	Field Services
P. J. Pincombe	Land Management

NORTH CENTRAL REGION

Box 5000, Ontario Government Building
435 James St. South, Thunder Bay 'F' Ont. P7C 5G6
Phone (807) 475-1261

G. P. Elliott	Regional Director	
L. M. Affleck	Deputy Reg. Director	
W. Hendry	Deputy Reg. Director	
N. Nurse	Admin. Co-ordinator	1221
R. T. Thomson	Biologist	1231
A. B. Johnson	Fire Mgt. Program Manager	1265
R. B. Adamson	Engineer	1301
J. T. Rudolph	Forester	1251
D. J. Murray	Lands Co-ordinator	1321
A. W. Currie	Parks/Rec. Co-ordinator	1281
K. G. Fenwick	Geologist	1331
M. N. Kantymir	Personnel	1201
J. E. Jackson	Senior Planner	1495
F. Barbetti	Information Officer	1695

Dorion Fish Culture Station, F. S. Watson..... Phone (807) 857-2322
Regional Fire Centre
L. R. Hutchinson - Fire Services..... Phone (807) 475-1664
R. Doyon - Fire Operation..... Phone (807) 475-1405
Thunder Bay Forest Nursery, R. A. Klapprat..... Phone (807) 939-2561

THUNDER BAY DISTRICT

Box 5000, Thunder Bay 'F', Ont. P7C 5G6
Phone (807) 475-1511

T. R. Isherwood	District Manager
B. G. Griffin	Administration
H. D. Howell	Fish & Wildlife, Parks & Rec.
R. G. Klein	Forests
J. W. Suttie	Lands & Eng. Serv.

GERALDTON DISTRICT

Box 640, Geraldton, Ont. P0T 1M0
Phone (807) 854-1030

E. H. Stone	District Manager
L. S. Morrow	Administration
W. J. Cook	Fish & Wildlife
D. Jovic	Forests
A. Hoshino	Lands, Parks & Eng. Services

ATIKOKAN DISTRICT

108 Saturn Avenue, Atikokan, Ont. P0T 1C0
Phone (807) 597-6971

A. M. Harjula.....	District Manager
R. N. Boyle.....	Field Services and Administration
B. H. Gibson.....	Fish & Wildlife
.....	Forests
D. H. Elder.....	Lands & Parks

NIPIGON DISTRICT

Box 970, Nipigon, Ont. P0T 2J0
Phone (807) 887-2120

J. E. Christian.....	District Manager
M. Wilson.....	Administration
L. Townes.....	Fish & Wildlife
S. Tenaglia.....	Forests
D. Bean.....	Lands & Parks & Eng. Serv.

TERRACE BAY

Box 280, Terrace Bay, Ont. P0T 2W0
Phone (807) 825-3205

P. A. Strassburger.....	District Manager
B. A Prince.....	Field Services & Administration
J. A. Chappel.....	Fish & Wildlife
J. Nickleson.....	Lands & Parks

Manitouwadge Work Centre
Box 309, Manitouwadge, Ontario
P0T 2C0 Phone (807) 826-3225
R. Waito..... Forests

NORTHERN REGION

Box 3000, 140 Fourth Ave., Cochrane, Ont. P0L 1C0
Phone (705) 272-4287

R. Riley.....	Regional Director
M. P. Barker.....	Deputy Reg. Director
R. I. Thompson.....	Fin. & Admin. Co-ordinator
D. E. McHale	Deputy Reg. Director

60 Wilson Avenue, Timmins, Ont. P4N 2S7
Phone (705) 267-1401

H. I. Mattson.....	Outdoor Rec. Co-ordinator
J. S. Dougan.....	Personnel Manager
B. Blais.....	Fire Management Officer
C. Roswalka.....	Safety Manager
M. S. Paradis.....	Mineral Res., Eng./Lands Co-ordinator
T. Isherwood.....	Forester
R. J. Landry.....	Operations Manager
J. R. Kenrick.....	Regional Planning Co-ordinator
P. G. Mongraw.....	Systems Co-ordinator
D. G. O'Reilly.....	Information Officer

COCHRANE DISTRICT

Box 730, 2 Third Ave, Cochrane, Ont.
P0L 1C0 Phone (705) 272-4365

J. F. Gosnell.....	District Manager
G. Nantel.....	Administration
Vacant.....	Eng./Prk. Supervisor
J. Starr.....	Forests
R. J. Jackson.....	Fish & Wildlife/Lands

KAPUSKASING DISTRICT

6 Government Road, Kapuskasing, Ont P5N 2W4
Phone (705) 335-6191

R. G. Lightheart.....	District Manager
L. Keller.....	Operations Supervisor
C. Jessop.....	Fish & Wildlife
K. Buck.....	Forests
D. Miller.....	Lands & Parks

CHAPLEAU DISTRICT

190 Cherry Street, Chapleau, Ont. POM 1KO
Phone (705) 864-1710

F. J. Wilson.....	District Manager
J. R. Russell.....	Operations Supervisor
P. W. Varrin.....	Fish & Wildlife
P. K. Bidwell.....	Forests
J. P. Dick.....	Lands & Waters
G. W. Dingee.....	Parks & Rec.

KIRKLAND LAKE DISTRICT

Box 129, Swastika, Ont. POK 1TO
Phone (705) 642-3222

C. E. Emblin.....	District Manager
G. E. Allick.....	Operations Supervisor
L. Chamberlin.....	Fish & Wildlife
L. K. Ternent.....	Forests
J. A. Colquhoun.....	Lands

Swastika Forest Station, L. J. Forcier..... Phone (705) 642-3255
Hill's Lake Trout Rearing Station, P. Graf..... Phone (705) 544-2834

GOGAMA DISTRICT

896 Riverside Drive, Timmins, Ont. P4N 3W2
Phone (705) 267-7951

A. F. Papineau.....	District Manager
C. Mason.....	Officer-in-Charge
R. Fink.....	Administration
J. Cavanagh.....	Fish & Wildlife
C. Mason.....	Forests
L. LaCarte.....	Lands & Parks

TIMMINS DISTRICT

896 Riverside Drive, Timmins, Ont. P4N 3W2
Phone (705) 267-7951

A. F. Papineau.....	District Manager
V. A. Mathieu.....	Operations Supervisor
T. Corbett.....	Fish & Wildlife
K. Wiskin.....	Forests
C. R. Biggar.....	Lands & Parks

HEARST DISTRICT

631 Front St., Hearst, Ont. POL 1NO
Phone (705) 362-4346

W. H. Therriault.....	District Manager
W. C. Trowsse.....	Administration
L. G. Woods.....	Field Services
S. St. Jules.....	Fish & Wildlife
D. Stillar.....	Forests (362-4264)
M. J. Girouard.....	Lands & Parks

MOOSONEE DISTRICT

Box 190, Moosonee, Ont.
POL 1YO Phone (705) 336-2987

S. Toole.....	District Manager
L. Bent.....	Administration
G. F. McAuley.....	Field Services
K. G. Abrahams.....	Biologist
Vacant.....	Outdoor Rec.
W. A. Hutchison.....	Lands

NORTHEASTERN REGION

199 Larch Street, 9th Floor, Sudbury, Ont. P3E 5P9
Phone (705) 675-4120

M. A. Klugman.....	Regional Director
J. E. Hamilton.....	Deputy Regional Director
S. Gourlay.....	Regional Finances and Admin. Co-ordinator
P. E. Giblin.....	Regional Resources/Lands Mgt. Co-ord.
M. Chambers.....	Personnel Services Co-ordinator
R. G. Running.....	Regional Information Officer
A. W. McClellan.....	Cons. Auth. Program Supervisor
W. E. Belisle.....	Fire Management Program Manager
W. C. Stevens.....	Regional Forester
E. A. Wright.....	Parks/Rec. Co-ordinator
J. R. Chevalier.....	Regional Biologist
H. Walsh.....	Regional Engineer

Tarentorus Trout Rearing Station
.....(S.S. Marie)..... Phone (705) 949-1231
Hatchery Manager - T. P. Hohenadel

North Bay Trout Rearing Station
M. Bohm, Manager (North Bay).... Phone (705) 663-2311

Sandfield Fish Hatchery
G. Clark, Manager (Espanola).... Phone (705) 859-3370

Kirkwood Nursery, Supt..... G. W. Connell

SAULT STE. MARIE DISTRICT

Box 130, 857 Queen St., Sault Ste. Marie, Ont. P6A 5L5
Phone (705) 949-1231

J. H. Sellers.....	District Manager
H. J. Smith.....	Administration Supvr.
E. R. Thomas.....	Fish & Wildlife Supvr.
B. Smith.....	Forests Mgt. Supvr.
I. J. Valentine.....	Lands & Parks Supvr.
E. Vaughan.....	Engineering Services Suprv.

SUDBURY DISTRICT

Box 3500, Stn. A, Sudbury, Ont. P3A 4S2
Phone (705) 522-7823

J. A. Simpson.....	District Manager
M. H. Jackson.....	District Administration Supvr.
F. C. Shaver.....	Field Services Supvr.
G. J. Haarmeyer.....	Fish & Wildlife Supvr.
D. R. Potvin.....	Forests Management Supvr.
M. K. Smith.....	Lands Supvr.
D. H. Brunette.....	Parks Supvr.

NORTH BAY DISTRICT

Box 3070, 222 McIntyre St. W., The Trust Building
North Bay, Ont. P1B 8K7
Phone (705) 474-5550

J. R. Morin.....	District Manager
G. E. Lacelle.....	District Admin. Supvr.
M. R. Wolfe.....	Fish & Wildlife Supvr.
D. E. Honeyborne.....	Forests Management Supvr.
R. V. Coulombe.....	Lands Management Supvr.
H. J. Edmundson.....	Parks Supvr.

BLIND RIVER DISTRICT

Box 190, 62 Queen St., Blind River, Ont. P0R 1B0
Phone (705) 356-2234

R. Lessard.....	District Manager
F. McWhinnie.....	Administration Supvr.
S. B. Woodside.....	Fish & Wildlife Supvr.
C. F. Husk.....	Forests Management Supvr.
R. H. Wood.....	Lands Supvr.

WAWA DISTRICT

Box 1160, 22 Mission Road, Wawa, Ont. P0S 1K0
Phone (705) 856-2396

C. D. Clark.....	District Manager
Mrs. J. M. Kern.....	District Admin. Supvr.
A. J. Bull.....	Field Services Supvr.
E. Armstrong.....	Fish & Wildlife Supvr.
C. K. Sumi.....	Forests Management Supvr.
E. V. Uhler.....	Lands Supvr.
A. L. Robinson.....	Parks Supvr.

ESPANOLA DISTRICT

Box 1340, 148 Fleming St., Espanola, Ont. P0P 1C0
Phone (705) 869-1330

E. N. Arbuckle.....	District Manager
Mrs S. Catling.....	District Admin. Supvr.
D. R. Hughson.....	Outdoor Recreation Supvr.
H. A. Liljalehto.....	Forests Management Supvr.
D. C. Carnochan.....	Lands Management Supvr.

TEMAGAMI DISTRICT

Box 38, Lakeshore Dr., Temagami, Ont. P0H 2H0
Phone (705) 569-3622

J. L. Hamill.....	District Manager
C. M. Hamilton.....	District Admin. Supvr.
B. A. Hillier.....	Forests Management Supvr.
R. B. Sinclair.....	Lands Supvr.
S. T. Flemming.....	Outdoor Recreation Supvr.

ALGONQUIN REGION

Box 9000, Brendale Square, Huntsville, Ont. P0A 1K0
Phone (705) 789-9611

R. M. Christie.....	Regional Director
J. H. Lever.....	Deputy Reg. Director
J. Carswell.....	Admin. Co-ordinator
P. A. Smith.....	Biologist
A. P. Stephen.....	Engineer
B. Petman.....	Program Manager - Fire Management
T. E. Dodds.....	Forester
J. A. van der Meer.....	Mines & Lands Co-ordinator
G. M. Moroz.....	Parks & Recreation Co-ordinator

Pembroke Trout Rearing Station (Privatized - Envirocon Ltd.)
Phone (613) 687-5935

Skeleton Lake Fish Hatchery
C. Core..... Phone (705) 769-3731

Haliburton-Hastings Fisheries
Assessment Unit..... Phone (613) 332-3940

Algonquin Park Fisheries
Assessment Unit..... Phone (705) 637-2780

Fire Management - Inside Fire Region
Fire Operations Managers

J. McCabe.....	Parry Sound.....	(705) 746-4201
T. Russell....	Minden.....	(705) 475-2107
B. Gagnon.....	Pembroke.....	(613) 732-3661
P. Gallagher..	Tweed.....	(613) 478-2330

PARRY SOUND DISTRICT

4 Miller St, Parry Sound, Ont. P2A 1S8
Phone (705) 746-4201

W. J. Lovering.....	District Manager
F. Buchan.....	Administration & Support Services
J. F. Gardner.....	Fish & Wildlife
G. C. Felton.....	Forests
J. A. Shalla.....	Parks
L. A. Connelly.....	Lands & Waters

BANCROFT DISTRICT

Box 500, Bancroft, Ont. K0L 1C0
Phone (613) 332-3940

D. J. Vance.....	District Manager
M. F. Rush.....	Support Services & Park Supervisor
V. B. Collins.....	Fish & Wildlife
F. J. Walker.....	Forests
D. W. McLennan.....	Petroglyphs Park
O. J. Fleming.....	Lands
H. Meyn.....	Geologist

ALGONQUIN PARK DISTRICT

Box 219, Whitney, Ont. K0J 2M0
Phone(705) 637-2780

G. R. Whitney.....	Park Supt./District Manager
E. A. Dayment.....	Administration
D. F. George.....	Forests
J. E. Elliot.....	Lands
L. L. Powell.....	Outdoor Recreation (Parks, F&W)
B. A. Norris.....	Field Services

PEMBROKE DISTRICT

Box 220, Riverside Drive, Pembroke, Ont. K8A 6X4
Phone (613) 732-3661

L. J. Haas.....	District Manager
A. H. Plummer.....	Administration & Support Services
A. E. Armstrong.....	Fish & Wildlife
R. C. A. Gilbert.....	Forests
G. D. Yarranton.....	Lands & Mines
E. N. McKenzie.....	Parks

BRACEBRIDGE DISTRICT

Box 1138, Bracebridge, Ont. P0B 1C0
Phone (705) 645-8747

H. P. Endress.....	District Manager
Vacant.....	Administration & Support Services
D. M. Brooks.....	Fish & Wildlife
G. K. Schultz.....	Forests
J. A. Bryant.....	Lands
R. G. Ellis.....	Parks

MINDEN DISTRICT

Minden, Ont. K0M 2K0
Phone (705) 286-1521

D. D. White.....	District Manager
R. E. Raby.....	Administration & Support Services
D. G. Atkinson.....	Fish & Wildlife
B. G. Cross.....	Forests
J. E. Dewey.....	Lands, Parks & Services

THE LESLIE M. FROST NATURAL RESOURCES CENTRE

Dorset, Ont. P0A 1E0
Phone (705) 766-2451

D. D. White.....	Director
R. W. Stewart.....	Plan & Management Supt.
W. A. Chambers.....	Operations Supt.
D. R. Elliot.....	Field Operations Suprv.
T. G. Wright.....	Food Services
H. J. Barnhart.....	Maintenance Foreman

Specialists:

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M. E. Buss.....	Fish & Wildlife
C. K. Macdonald.....	Recreation
R. R. Keevil (Acting).....	Lands
S. A. Williams.....	Visitor Services

GRAVENHUST TECHNOLOGY DEVELOPMENT CENTRE
Box 820, Gravenhust, Ont. P0C 1G0

D. G. Watton.....	Manager

EASTERN REGION

Provincial Government Building,
Concession Road, Kemptville, Ont. K0G 1J0
Phone (613) 258-3413

J. R. Oatway.....	Regional Director
D. E. Gage.....	Deputy Reg. Director, Resources
J. S. Anderson.....	Deputy Reg. Director, Services
W. B. Bowles.....	Admin. Co-ordinator
(Vacant).....	Biologist
J. D. Murray.....	Lands & Cons. Auth. Prg. Supervisor
W. P. Barber.....	Parks & Rec. Co-ordinator
J. R. Stork.....	Engineer
T. W. Fletcher.....	Mines Co-ordinator
P. E. Anslow.....	Forester
D. G. Kennedy.....	Fire Management Co-ordinator
M. A. Hart.....	Personnel Services Co-ordinator

Codrington Fish Hatchery
A. H. Draves..... Phone (613) 475-2512

White Lake Fish Hatchery
K. Steele..... Phone (613) 335-2115

Westport Fish Hatchery
G. E. Raine..... Phone (613) 273-2106

G. Howard Ferguson Forest Station
A. J. Campbell..... Phone (613) 258-3413

TWEED DISTRICT

Metcalfe Street, Tweed, Ont. K0K 3J0
Phone (613) 478-2330

R. N. Kervin.....	District Manager
G. J. O'Hearn.....	Administration & Field Services
M. J. Williams.....	Lands
J. C. Williamson.....	Outdoor Rec.
Dr. P. W. Kingston.....	Geologist
A. J. Denys.....	Forests

NAPANEE DISTRICT

1 Richmond Blvd., Napanee, Ont. K7R 3S3
Phone (613) 354-2173

R. W. Beecher.....	District Manager
R. A. Armstrong.....	Finance, Administration Services & Fire
R. W. Baldwin.....	Fish & Wildlife
R. Griffiths.....	Lands
J. C. Matheson.....	Parks
S. Thatcher.....	Mineral Resources

BROCKVILLE DISTRICT

Box 605, Oxford Ave., Brockville, Ont. K6V 5Y8
Phone (613) 342-8524

W. V. Hardy.....	District Manager
D. G. Gilmer.....	Administration
G. L. Penney.....	Fish & Wildlife
W. M. Fasken.....	Forests
G. Tabobondune.....	Lands & Field Services
B. A. Barkley.....	Fast Growing Hardwoods Group
S. Thatcher (at Napanee).....	Mineral Resources

CARLETON PLACE DISTRICT

10 Findlay Ave., Carleton Place, Ont. K7C 3Z6
Phone (613) 257-5735

M. S. Millar.....	District Manager
G. N. Sanderson.....	Administration & Field Services
J. D. McCready.....	Forests
R. N. Jones.....	Fish & Wildlife
R. M. Rogers.....	Lands
M. A. MacDonald.....	Mineral Resources
K. J. Schonauer.....	Parks

CORNWALL DISTRICT

113 Amelia St. Cornwall, Ont. K6H 5V7
Phone (613) 933-1774

R. J. Cleroux.....	District Manager
W. J. Humphrys.....	Administration
E. McGregor.....	Fish & Wildlife
B. W. Warwick.....	Forest Management
K. E. Green.....	Parks & Recreation
B. W. McCue.....	Lands & Mineral Resources

CENTRAL REGION

10670 Yonge St., Richmond Hill, Ont. L4C 3C9
Phone (416) 884-9203

M. B. Fordyce	Regional Director	295
A. D. Latornell	Deputy Reg. Director	297
H. Tjoelker	A/Deputy Reg. Director	290
R. M. Clouthier	A/Administrative Co-ordinator	208
J. B. Dawson	Biologist	247
J. J. McFadden	Cons. Auth. Co-ordinator	232
E. L. Borczon	Forester	289
M. Narain	Geologist	205
T. M. Kurtz	Service Engineer	234
J. T. Griffin	Parks Rec. Co-ordinator	299
M. A. Groneng	Lands & Mines Co-ordinator	216
D. P. Kolenosky	Systems Co-ordinator	209

Midhurst Forest Station, Midhurst
K. H. Reese..... Phone (705) 728-2900

Orono Forest Station, Orono
G. R. McLeod..... Phone (416) 983-9147

Ontario Tree Seed Plant, Angus
B. D. Swaile..... Phone (705) 424-5311

Deer Lake Fish Hatchery, R.R.#1, Havelock
G. T. Cation..... Phone (705) 778-3391

Ringwood Fish Hatchery
B. Marchant..... Phone (416) 640-6204

MAPLE DISTRICT

Maple, Ont. L0J 1E0
Phone (416) 832-2761

I. B. Earl	District Manager	203
W. B. Pottelberg	Support Services	300
R. L. Desjardine	Outdoor Recreation	211
Si Dae Kim	Forests	224
B. Anderson	Lands & Mineral Resources	208

LINDSAY DISTRICT

322 Kent St. West, Lindsay, Ont. K9V 4T7
Phone (705) 324-6121

W. H. Forman.....	District Manager
A. V. Kaufman.....	Support Services
P. Drysdale.....	Fish & Wildlife
G. Higham.....	Forests
L. C. Selby.....	Lands & Minerals
G. Scott.....	Parks

HURONIA DISTRICT

Midhurst, Ont. L0L 1X0
Phone (705) 728-2900

W. D. Mansell.....	District Manager
D. H. Poff.....	Support Services
A. W. Smith.....	Fish & Wildlife
R. O. Brandes.....	Forests
D. R. MacArthur.....	Services
J. R. Winters.....	Parks

CAMBRIDGE DISTRICT

Box 2186, Cambridge, Ont. N3C 2W1
Phone (519) 658-9355

W. R. Catton.....	District Manager
B. J. DeGunst.....	Support Services
C. Selby.....	Fish & Wildlife
S. Yorgan.....	Forest Management
B. L. Houck.....	Parks
D. A. Routly.....	Lands & Minerals

NIAGARA DISTRICT

Box 1070, Hwy. 20, Fonthill, Ont. L0S 1E0
Phone (416) 892-2656

J. E. Dickenson.....	District Manager
A. J. Vos.....	Support Services
E. A. Kraker.....	Forests
D. Euler.....	Outdoor Rec.
J. Z. Fraser.....	Lands & Minerals

SOUTHWESTERN REGION

659 Exeter Rd., Box 5463, London, Ont. N6A 4L6

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Deputy Reg. Director.....	A. J. Stewart.....	(519) 661-2734
Secretary.....	.....	(519) 661-2775
General Inquiry.....	.....	(519) 661-2800
Telex.....	.....	06-47248

Co-ordinators

Finance and Administration.....	D. W. Munch.....	(519) 661-2752
Fisheries.....	H. A. Orr.....	(519) 661-2739
Conservation Authorities.....	R. J. McClure.....	(519) 661-2736
Forestry and Wildlife.....	J. A. Fingland.....	(519) 661-2741
Parks and Recreation.....	G. E. Martelle.....	(519) 661-2742
Enforcement.....	R. P. Wells.....	(519) 661-2740
Personnel.....	D. C. Watt.....	(519) 661-2733
Petroleum Resources		
Provincial Petroleum Supervisor	.....	(519) 661-2711
Petroleum Resources Laboratory		
Chief Geologist.....	.....	(519) 661-2765
Planning & Design		
Regional Engineer.....	.....	(519) 661-2722

CHATHAM DISTRICT

Box 1168, 435 Grand Avenue, Chatham, Ont. N7M 5L8
Phone (519) 354-7340

W. L. McNab.....	District Manager
B. Hall.....	Support Services
H. Manson.....	Fish & Wildlife
K. Yaraskavitch.....	Forests, Mineral Resources
A. D. Carr.....	Parks
H. W. Rowe.....	Extension Services

SIMCOE DISTRICT

548 Queensway West, Simcoe, Ont. N3Y 4T2
Phone (519) 426-7650

M. F. McKenzie.....	District Manager
A. McGarrity.....	Support Services
J. M. Collins.....	Resource Planning
R. Manley.....	Operations
W. L. Edwards.....	Extension Services

OWEN SOUND DISTRICT

611 Ninth Avenue East, Owen Sound, Ont. N4K 3E4
Phone (519) 376-3860

R. W. Tippett.....	District Manager
M. Gobeil.....	Support Services
S. A. Monroe.....	Lake Huron Fishery Operations Co-ordinator
W. J. Lambie.....	Resource Planning
P. H. Baxter.....	Operations
K. Hawthorne.....	Extension Services
E. G. Walker.....	Reg. Fire Co-ordinator

WINGHAM DISTRICT

R.R. #5, Wingham, Ont. N0G 2W0
Phone (519) 357-3131

A. M. Houser.....	District Manager
O. E. Crawford.....	Support Services
W. A. Creighton.....	Resource Planning
H. R. Lancaster.....	Operations
T. R. Carter.....	Mineral Resources
R. H. Spurr.....	Extension Services

AYLMER DISTRICT

353 Talbot St. W., Aylmer, Ont. N5H 2S8
Phone (519) 773-9241

M. G. Lewis.....	District Manager
D. L. Clarke.....	Support Services
G. R. Austin.....	Operations
W. C. Gilmore.....	Resource Planning
D. G. Ward.....	Extension Services
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